

CESIO RECOMMENDATIONS for the harmonized classification and labelling of surfactants

Brussels, November 2025

INTRODUCTION

In the mid 1980's, CESIO (Comité Européen des Agents de Surface et de leurs Intermédiaire Organiques - European Committee of organic surfactants and their organic intermediates) started to gather data for recommendations of harmonized classification and labelling (C&L) of surfactants, according to the Dangerous Substances Directive (67/548/EEC). The purpose of such initiative was to establish a reliable database for the major volume and other important surfactants.

The availability of hazard data, however, differs between the individual CESIO member and associated companies. It is therefore one of the major objectives of the CESIO recommendations to fill the gaps and allow companies that do not hold appropriate data to classify and label their surfactants accordingly. CESIO activities on harmonized C&L are based on all studies currently available within CESIO member companies. This information was thoroughly reviewed and interpreted by a panel of experts from CESIO member companies and appropriate C & L recommendations for the specific endpoints have been derived. In most cases the recommendations for C&L are based on weight of evidence and established expert judgment.

Consequently, CESIO recommendations are derived from the whole range of available information and data and can be regarded as more reliable than no or single companies' data. They are not all-embracing and do not cover every endpoint. CESIO C&L recommendations are regularly reviewed (frequency: every 2 years) and updated if and when required

Updated recommendations - Legal background (CLP)

Since 2013, CESIO has published its updated recommendations for classification and labelling both for human health and for environment according to the CLP regulation (GHS of the EU) together with UN GHS classification. The CLP regulation obliges all manufacturers/importers of substances to gather relevant and available information on all hazardous properties; the classification needs to be made according to the CLP criteria. The CLP regulation also requires the harmonization of the classification and labelling of hazardous chemicals among different suppliers to ensure adequate risk management throughout the European Union. CLP also brought new thresholds that differ between hazard categories of a certain endpoint which led to several new, often stricter, classifications of substances: substances or chemical mixtures which had not been labelled under the Dangerous Substances Directive / Dangerous Preparations Directive, have to be classified under the CLP regulation. In addition, new data and new findings may lead to a new classification and/or a new recommendation from CESIO member companies.

Liability and Responsible Care: Meaning and purpose of CESIO recommendations

The compilation of available data from European surfactant manufacturers, the derived C&L recommendations and the application of existing classification and labelling guidelines are believed to be the most efficient mechanism for fulfilling the requirements of harmonized classification in the EU. These recommendations should be implemented unless substantial reasons for deviation are given. Ultimately, the responsibility for appropriate classification and labelling rests with the manufacturer, the importer or the downstream user who places the surfactant on the market.

Harmonized classifications for (obviously) same substances/mixtures are important for Industry for various reasons. On the one hand, harmonising classifications is a legal obligation. On the other hand, Industry is committed to the principles of Responsible Care. CESIO C&L recommendations help Industry demonstrate it is proactive and responsible. Negative external effects, in the absence of harmonised classification, need to be avoided at all costs. This concerns single companies as well as the industry as a whole.

Note that the new hazard classes for ED, PBT/vPvB and PMT/vPvM in accordance with commission delegated regulation (EC) 2023/707 amending regulation (EC) no 1272/2008 (EU CLP) have not been addressed in the 2025 version of the guide. ECHA only released the guidance on how to classify substances in accordance with the new hazard classes in Nov 2024. CESIO will include any relevant changes for substances impacted by these new hazard classes in the next version of the guide.

Deviations from CESIO recommendations

A surfactant manufacturer does not need to have in its possession data for all possible endpoints for each substance manufactured. However, the one placing a surfactant on the market should evaluate all available information.

It should be noted that manufacturers of hazardous substances are not required to conduct additional tests on substances to determine their hazard, but are obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exist concerning the properties of such substances. This means that a surfactant manufacturer needs to have data for all possible endpoints for each substance manufactured. Indeed, not only the data generated on a manufacturer's own products are relevant for

their classification and labelling. All available information should be evaluated.

Relying on empirical experiences of the past is not sufficient. Valid studies which lead to conclude a specific classification have to be taken into account and the classification has to be made accordingly.

If the substance identity differs in detail (which needs to be demonstrated clearly) or the company is in possession of data which prove a classification different to that recommended by CESIO, the company may deviate from the recommendation. However CESIO invites its members to submit all available data in order to improve the database and be able to derive a reliable and weight of evidence based harmonized C&L recommendation.

As a consequence, CESIO recommendations are derived from a whole range of available information and data. Isolated experimental data which is not in line with the recommendations may not necessarily be sufficient to overrule the recommendations.

In case of conflicting information (single versus collective data), collective data must be used to derive the C&L classification (single company data can be mentioned in the safety data sheet for information, but not to derive the classification)

Dates and deadlines

Although the recommendations are not legally binding, European surfactant producers are requested to use the proposed CESIO C&L recommendations and to update the C&L of Safety Data Sheets as soon as possible, but not later than 9 months, after date of publication of the latest C&L recommendations on the CESIO web site. Also amended Safety Data Sheets must be sent to clients.

> For further information,
please contact
Jérôme Tisaun
(jti@cefic.be)

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> These tables are the result of a project of CESIO member-companies exchanging available information about several surfactant groups done in 2020/2021. Intention was the harmonisation of classification and labelling (C&L) of substances. Experts of CESIO member-companies agreed on the classification and labelling of surfactants shown in the related tables.

The work was done on the basis of studies currently available in member companies. Information were gathered, reviewed and interpreted thoroughly and can be regarded as reliable. The tables below present the current state of the art and thus may be subject to change based on new data when made available.

Although the lists have no regulatory character European surfactant producers are requested to use the proposed Classification and Labelling and to update Safety Data Sheets as soon as possible, but not later than 9 months after date of publication on the CESIO website. Amended Safety Data Sheets should be sent to clients. Longer implementation should be avoided, because otherwise surfactant users might be confused due to different information received by their suppliers. In case you have further data, which was not considered during the project supporting or contradicting to the conclusions in this table please contact CESIO.

Although the work was done with highest accuracy CESIO and member companies cannot take over liability for the contents of this table. Producers and importers of surfactants are requested to use this table, but remain responsible for C&L.

All public data submitted to ECHA in REACH registration dossiers is available by substance on the ECHA website. Therefore, readers should also consider this data, which is by no means precluded by the CESIO recommendations.

ALCOHOL ETHOXYLATES

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*

* For further explanation on hazard statements and pictograms see at the end of the table.

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Category: Nonionics		Family: Alcohol ethoxylates		Typical chemical ingredient: Fatty alcohol, ethoxylated												
27252-75-1	500-058-1	Alcohols, C8, ethoxylated (Octan-1-ol, ethoxylated)	C	8	< 2.5 EO		100		ENV: NC HH: Eye Dam.1 No rec. on skin Irrit.	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam.1 No rec. on skin Irrit.	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		≥ 2.5 - < 4 EO		100		ENV: NC HH: Eye Dam.1 Skin Irrit. 2	ENV: NC HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 5 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H402 HH: H303 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					4 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam.1 Skin Irrit. 2	ENV: NC HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H402 HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 4 - ≤ 5 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam.1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Eye Dam.1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 5 - < 10 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Irrit. 2	ENV: NC HH: H302 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Eye Irrit. 2A	ENV: H402 HH: H302 H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		10 EO		100		ENV: NC HH: Acute Tox. 4 (oral)	ENV: NC HH: H302	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral)	ENV: H402 HH: H302	ENV: - HH: Warning	ENV: - HH: GHS07
			C		> 10 - < 15 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: Acute Tox. 5 (oral)	ENV: H402 HH: H303	ENV: - HH: Warning	ENV: - HH: -
					15 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
					> 15 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68439-45-2 71060-57-6	615-247-5	Alcohols, C6-12, ethoxylated Alcohols, C8-10, ethoxylated	C	8-10	< 2.5 EO		100		ENV: NC HH: Eye Dam.1 Skin Irrit. 2	ENV: NC HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H401 HH: H303 H318 H314	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 2.5 - < 4 EO		100		ENV: NC HH: Eye Dam.1 Skin Irrit. 2	ENV: NC HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H401 HH: H303 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					4 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam.1 Skin Irrit. 2	ENV: NC HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H401 HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

* Changes with regard to list from May 2021. C = Change/N = New.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
			C		5 EO		100		ENV: NC HH: Acute oral 4 Eye Dam. I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 5 - ≤ 10 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 10 - < 15 EO		100		ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Acute Tox. 5 (oral) Eye Dam. I	ENV: H402 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. I	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 15 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68439-46-3	614-482-0	Alcohols, C9-11, ethoxylated	C	9-11	< 2.5 EO		100		ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Eye Irrit. 2A	ENV: H401 H412 HH: H303 H319	ENV: - HH: Warning	ENV: - HH: GHS07
160901-09-7	500-446-0	Alcohols, C9-11, branched and linear, ethoxylated														
78330-20-8	--	Alcohols, C9-11-iso-, C10-rich, ethoxylated														
169107-21-5	--	Alcohols, C9-11, branched, ethoxylated														
			C		≥ 2.5 - < 4 EO		100		ENV: NC HH: Eye Dam.I Skin Irrit. 2	ENV: NC HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam.I Skin Irrit. 2	ENV: H401 HH: H303 H318 315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		4 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam.I Skin Irrit. 2	ENV: NC HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam.I Skin Irrit. 2	ENV: H401 HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		5 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

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			C		> 5 - ≤ 7 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. I	ENV: H401 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 7 - ≤ 10 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 10 - < 15 EO		100		ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam. I	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Eye Dam. I	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 15 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
160875-66-1		Poly(oxy-1,2-ethanediyl), α-(2-propylheptyl)-ω-hydroxy-)	C	10 GUEA	< 2.5 EO		100		ENV: Chronic 3 HH: Eye Irrit. 2 Skin Irrit. 2	ENV: H412 HH: H319 H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Eye Irrit. 2A Skin Irrit. 2	ENV: H401 H412 HH: H303 H319 H315	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 2.5 - < 4 EO		100		ENV: NC HH: Eye Dam.I Skin Irrit. 2	ENV: NC HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam.I Skin Irrit. 2	ENV: H401 HH: H303 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		4 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam.I Skin Irrit. 2	ENV: NC HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam.I Skin Irrit. 2	ENV: H401 HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		5 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H401 HH: H302 H318	ENV: - Danger	ENV: - HH: GHS05 GHS07
			C		> 5 - ≤ 7 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. I	ENV: H401 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 7 - ≤ 10 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

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			C		> 10 - < 15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Acute Tox. 5 (oral) Eye Dam. 1	ENV: NC HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 15 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
26183-52-8	500-046-6	Alcohols, C10, ethoxylated (Decan-1-ol, ethoxylated)	C	10	< 2.5 EO		100		ENV: Acute 1 HH: Eye Irrit. 2 Skin Irrit. 2	ENV: H400 HH: H319 H315	ENV: Warning HH: Danger	ENV: Warning HH: GHS05 GHS07	ENV: Acute 1 HH: Acute Tox. 5 (oral) Eye Irrit. 2A Skin Irrit. 2	ENV: H400 HH: H303 H319 H315	ENV: Warning HH: Danger	ENV: Warning HH: GHS07
			C		≥ 2.5 - < 4 EO		100		ENV: NC HH: Eye Dam.1 Skin Irrit. 2	ENV: NC HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H401 HH: H303 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					4 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam.1 Skin Irrit. 2	ENV: NC HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H401 HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		5 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam.1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - Danger	ENV: - GHS05 GHS07
			C		> 5 - ≤ 7 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H402 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 7 - ≤ 10 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 10 - < 15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Acute Tox. 5 (oral) Eye Dam. 1	ENV: H402 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 15 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
67254-71-1	939-592-9	Alcohols, C10-12, ethoxylated	C	10-12	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Irrit. 2 #	ENV: H400 H412 HH: H319 #	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 5 (oral) # Eye Irrit. 2A #	ENV: H400 H412 HH: H303 H319 (H315)	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 2.5 - < 4 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam.1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 Chronic 3 HH: Acute Tox. 5 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H400 H412 HH: H303 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
					4 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H400 H412 HH: H302 H318 H315	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam.1 Skin Irrit. 2	ENV: H400 H412 HH: H302 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		5 EO		100		ENV: NC HH: Acute oral 4 Eye Dam.1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 5 - ≤ 7 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 7 - ≤ 10 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 dermal Eye Dam. 1	ENV: H401 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					> 10 - < 15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 5 (oral) Eye Dam. 1	ENV: H402 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 15 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
					> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
78330-21-9		Alcohols, C11-14 linear and branched, C13 rich, ethoxylated	C	11-14	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 2 HH: Skin Irrit. 2	ENV: H400 H411 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 2 HH: Skin Irrit. 2	ENV: H400 H411 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 2.5 - < 5 EO		100		ENV: Chronic 3 HH: Eye Dam.1 Skin Irrit. 2	ENV: H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Eye Dam.1 Skin Irrit. 2	ENV: H401 H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 5- < 6 EO		100		ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Eye Dam. 1 Skin irrit. 2	ENV: H401 H412 HH: H303 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		6 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 6 - < 12 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					≥ 12 - < 14 EO				ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					14 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 Chronic 3 HH: Eye Dam. 1	ENV: H402 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: HS05
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -

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* Changes with regard to list from May 2021. C = Change/N = New.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
127036-24-2		Undecanol, branched and linear, ethoxylated (≥ 2.5 EO)	N	11 branched	≥ 2.5 - < 4 EO		100		ENV: NC HH: Eye Dam. 1 Skin Irrit. 2	ENV: NC HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS 05 HS 07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam. 1 Skin Irrit. 2	ENV: H401 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07
			N		≥ 4 - < 5 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1 Skin Irrit. 2	ENV: NC HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. 1 Skin Irrit. 2	ENV: H401 HH: H302 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07
			N		5 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07
			N		> 5 - ≤ 7 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07
			N		> 7 - ≤ 10 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS 05 GHS 07
9002-92-0	500-002-6	Dodecan-1-ol, ethoxylated	C	12	< 2.5 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) # Eye Irrit. 2 #	ENV: H412 HH: H302 # H319 #	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2, Chronic 3 HH: Acute Tox. 4 (oral) # Eye Irrit. 2 A #	ENV: H401, H412 HH: H302 # H319 #	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 2.5 - < 5 EO		100		ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H401 H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		5 EO		100		ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Eye Dam. 1 Skin Irrit. 2	ENV: H401 H412 HH: H303 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		6 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		> 6 - < 12 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 14 - ≤ 15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
					> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
160901-19-9 (66455-14-9)	500-457-0 (500-165-3)	Alcohols, C12-13, branched and linear, ethoxylated (Alcohols, C12-13, ethoxylated)	C	12-13	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 2 HH: NC #	ENV: H400 H411 HH: NC #	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=1) Chronic 2 HH: NC #	ENV: H400 H411 HH: NC #	ENV: Warning HH: -	ENV: GHS09 HH: -
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 5 (oral) Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H303 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		>5- ≤6 EO				ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		> 6 - < 12 EO				ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		14 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - ≤ 20 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2A	ENV: H401 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		> 20 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
					> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68439-50-9	500-213-3	Alcohols, C12-14, ethoxylated	C	12-14	< 2.5 EO		100		ENV: Acute 1 (M=10) Chronic 2 HH: NC #	ENV: H400 H411 HH: NC #	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=10) Chronic 2 HH: NC #	ENV: H400 H411 HH: NC #	ENV: Warning HH: -	ENV: GHS09 HH: -
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute oral 5 Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H303 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		>5 - ≤6 EO				ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 6 - < 12 EO				ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		14 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - ≤ 20 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2A	ENV: H401 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		> 20 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30		100		ENV: NV HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
106232-83-1 (68131-39-5)	(500-195-7)	Alcohols, C12-15-branched and linear, ethoxylated (Alcohols, C12-15, ethoxylated)	C	12-15	< 2.5 EO		100		ENV: Acute 1 (M=10) Chronic 2 HH: NC #	ENV: H400 H411 HH: NC #	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=10) Chronic 2 HH: Skin Irrit 3 #	ENV: H400 H411 HH: H316 #	ENV: Warning HH: Warning	ENV: GHS09 HH: -
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05	ENV: Acute 1 (M=1) Chronic 3 HH: Acute oral 5 Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H303 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		> 5 - ≤ 6 EO				ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 6 - < 12 EO				ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		14 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - ≤ 20 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2A	ENV: H401 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		> 20 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NV HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NV HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68551-12-2 (68002-97-1)		Alcohols, C12-16, ethoxylated (Alcohols, C10-16, ethoxylated)		12-16	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit.2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit.2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification				CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.									* For further explanation on hazard statements and pictograms see at the end of the table.							
			C		5 - <6 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute oral 5 Eye Dam. 1 Skin Irrit. 2.	ENV: H400 H412 HH: H303 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		6 EO				ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 6 - < 12 EO				ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					14 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NV HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NV HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68213-23-0	500-201-8	Alcohols, C12-18, ethoxylated		12-18	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam 1 Skin Irrit 2	ENV: H400 H412 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute oral 5 Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 H303 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		>5 - ≤6 EO				ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 6 - < 12 EO				ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		14 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Acute Tox. 5 (oral) Eye Dam. 1	ENV: H402 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - < 25 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 25 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
					> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
69011-36-5 9043-30-5	500-241-6 500-027-2	Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-, branched (trimer butane based) Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy- (tetramer propane based)	C	13 branched	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: NC #	ENV: H400, H412 HH: NC #	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=1), Chronic 3 HH: Skin Irrit 3 #	ENV: H400 H412 HH: H 316 #	ENV: Warning HH: Warning	ENV: GHS09 HH: -
			C		≥ 2.5 - < 5 EO		100		ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit.2	ENV: H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H401 H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 5 - < 6 EO		100		ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit.2	ENV: H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Eye Dam. 1 Skin irrit 2	ENV: H401 H412 HH: H303 H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 6 - < 7 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					≥ 7 - ≤ 10 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		11 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H402 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 11- < 14 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 14- ≤ 15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		> 15 - ≤ 20 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		> 20 - ≤ 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2A	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		> 30 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: -	ENV: NC HH: -	ENV: - HH: -	ENV: - HH: -
157627-86-6		Alcohols, C13-15-branched and linear, ethoxylated	C	13-15	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Irrit. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute oral 5 Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H303 H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		> 5 - ≤ 6 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute oral 5 Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 6 - < 12 EO				ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥12 - ≤ 13 EO				ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		14 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05

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* Changes with regard to list from May 2021. C = Change/N = New.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
			C		> 15 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
27306-79-2	500-059-7	Tetradecan-1-ol, ethoxylated		14	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		≥ 5 - < 6 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox.5 (oral) Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H303 H318 H305	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		≥ 6 - < 7 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		≥ 7 - < 12 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 14 - < 15 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
			C		> 15 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68951-67-7		Alcohols, C14-15, ethoxylated	C	14-15	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		≥ 5 - < 6 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox.5 (oral) Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H303 H318 H305	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		≥ 6 - < 7 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					≥ 7 - < 8 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GHS05
					≥ 8 - < 12 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					≥12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
					≥ 14 - < 15 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 15 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
120944-68-5		Alcohols, C14-15-branched and linear, ethoxylated	C	14-15	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		≥ 5 - < 6 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox.5 (oral) Eye Dam. 1 Skin Irrit 2	ENV: H400 H412 HH: H303 H318 H305	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		≥ 6 - < 7 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox.5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H400 H412 HH: H303 H313 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
			C		≥ 7 - < 8 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H400 H412 HH: H302 H313 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		≥ 8 - < 12 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥12 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 14 - < 15 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68154-96-1		Alcohols C14-18, ethoxylated	C	14-18	< 2.5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit.2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit.2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 2.5 - < 5 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		≥ 5 - < 6 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H318 H315	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox.5 (oral) Eye Dam. 1 Skin Irrit. 2	ENV: H400 H412 HH: H303 H318 H305	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
			C		≥ 6 - < 7 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox.5 (oral) Acute Tox. 5 (dermal) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05

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* For further explanation on hazard statements and pictograms see at the end of the table.																
			C		≥ 7 - < 12 EO		100		ENV: Chronic 3 HH: Eye Dam. I	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox.4 (oral) Acute Tox. 5 (dermal) Eye Dam. I	ENV: H401 H412 HH: H302 H313 H318	ENV: - HH: Danger	ENV: - HH: GSH05
			C		≥12 - < 14 EO		100		ENV: Chronic 3 HH: Eye Dam. I	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox.4 (oral) Eye Dam. I	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GSH05
			C		≥ 14 - < 15 EO		100		ENV: Chronic 3 HH: Eye Dam. I	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. I	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		15 EO				ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) § Eye Dam. I	ENV: H402 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - <25 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) § Eye DamI	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 25 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2A	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
52609-19-5	500-116-6	2-Hexyldecan-1-ol, ethoxylated		16 GUEA	< 2.5 EO		100		ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 Chronic 3 HH: NC	ENV: H402 HH: H412 HH: NC	ENV: - HH: -	ENV: - HH: -
			N		≥2.5 - <5 EO		100		ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 Chronic 3 HH: NC	ENV: H402 HH: H412 HH: NC	ENV: - HH: -	ENV: - HH: -
			N		≥5 - <6 EO		100		ENV: Acute I Chronic 3 HH: NC	ENV: H400, H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute I Chronic 3 HH: Acute Tox.5 (oral)	ENV: H400, H412 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -

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* For further explanation on hazard statements and pictograms see at the end of the table.																
			N		≥6 - <7 EO		100		ENV: Acute 1 Chronic 3 HH: NC	ENV: H400, H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400, H412 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -
			N		7 EO		100		ENV: Acute 1 Chronic 3 HH: Acute Tox.4 (oral)	ENV: H400, H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 Chronic 3 HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400, H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			N		>7 - <10 EO		100		ENV: NC HH: Acute Tox.4 (oral)	ENV: NC HH: H302	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) §	ENV: NC HH: H302	ENV: - HH: Warning	ENV: - HH: GHS07
			N		10 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			N		≥11 - <14 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox.4 (oral) Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			N		14 EO		100		ENV: NC HH: Eye Dam 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Eye Dam 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			N		15 EO		100		ENV: NC HH: Eye Dam 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) § Eye Dam 1	ENV: NC HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			N		>15 - <25 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			N		≥25 - <30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2A	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07

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* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
			N		≥30 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
--	--	Alcohols, C16-17, branched and linear, ethoxylated	N	16-17 branched	< 2.5 EO		100		ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 Chronic 3 HH: NC	ENV: H402 H412 HH: NC	ENV: - HH: -	ENV: - HH: -
			N		≥2.5 - <5 EO		100		ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 Chronic 3 HH: NC	ENV: H402 H412 HH: NC	ENV: - HH: -	ENV: - HH: -
			N		≥5 - <6 EO		100		ENV: Acute 1 Chronic 3 HH: NC	ENV: H400, H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox.5 (oral)	ENV: H400, H412 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -
			N		≥6 - <7 EO		100		ENV: Acute 1 Chronic 3 HH: NC	ENV: H400, H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400, H412 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -
			N		7 EO		100		ENV: Acute 1 Chronic 3 HH: Acute Tox.4 (oral)	ENV: H400, H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 Chronic 3 HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400, H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			N		>7 - <10 EO		100		ENV: NC HH: Acute Tox.4 (oral)	ENV: NC HH: H302	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) §	ENV: NC HH: H302	ENV: - HH: Warning	ENV: - HH: GHS07
			N		10 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			N		≥11 - <14 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox.4 (oral) Eye Dam I	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			N		14 EO		100		ENV: NC HH: Eye Dam I	ENV:NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Eye Dam I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
			N		15 EO		100		ENV: NC HH: Eye Dam 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) § Eye Dam 1	ENV: NC HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			N		>15 - <25 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			N		≥25 - <30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2A	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			N		≥30 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68439-49-6	939-518-5	Alcohols, C16-18, ethoxylated		16-18	< 2.5 EO		100		ENV: Chronic 2 HH: NC #	ENV: H411 HH: NC #	ENV: - HH: -	ENV: GHS09 HH: -	ENV: Acute 3 Chronic 2 HH: NC #	ENV: H402 HH: H411 NC #	ENV: - HH: -	ENV: GHS09 HH: -
			C		≥ 2.5 - < 5 EO		100		ENV: Chronic 2 HH: NC	ENV: H411 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -	ENV: Acute 2 Chronic 2 HH: NC	ENV: H401 HH: H411 NC	ENV: - HH: -	ENV: GHS09 HH: -
			C		≥5 - <6 EO		100		ENV: Acute 1 Chronic 3 HH: NC	ENV: H400, H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox.5 (oral)	ENV: H400, H412 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -
			C		≥6 - <7 EO		100		ENV: Acute 1 Chronic 3 HH: NC	ENV: H400, H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400, H412 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -
			C		≥ 7 - < 10 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral)	ENV: H400 H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400 H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
			C		10 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GSH05	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GSH05
			C		≥11 - <14 EO		100		ENV: Chronic 3 HH: Acute Tox.4 (oral) Eye Dam 1	ENV: Chronic 3 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox.4 (oral) Eye Dam 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		14 EO		100		ENV: Chronic 3 HH: Eye Dam 1	ENV: Chronic 3 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		15 EO		100		ENV: Chronic 3 HH: Eye Dam 1	ENV: Chronic 3 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) § Eye Dam 1	ENV: H401 H412 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		>15 - <25 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥25 - <30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2A	ENV: H401 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30- ≤ 50 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 50 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68920-66-1	500-236-9	Alcohols, C16-18 and C18-unsatd., ethoxylated	C	16-18, 18unsat.	< 2.5 EO		100		ENV: Chronic 2 HH: Skin Irrit. 2	ENV: H411 HH: H315	ENV: - HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 3 Chronic 2 HH: Skin Irrit. 2	ENV: H402 H411 HH: H315	ENV: - HH: Warning	ENV: GHS09 HH: GHS07
					≥ 2.5 - ≤ 5 EO		100		ENV: Chronic 2 HH: Skin Irrit. 2	ENV: H411 HH: H315	ENV: - HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 2 Chronic 2 HH: Skin Irrit. 2	ENV: H401 H411 HH: H315	ENV: - HH: Warning	ENV: GHS09 HH: GHS07

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		> 5 - ≤ 7 EO				ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2	ENV: H400 H412 HH: H315	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		> 7 - < 10 EO		100		ENV: Chronic 3 HH: Skin Irrit. 2	ENV: H412 HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 Chronic 3 HH: Skin Irrit. 2	ENV: H401 H412 HH: H315	ENV: -- HH: Warning	ENV: GHS09 HH: GHS07
			C		≥ 10 - < 15 EO		100		ENV: Chronic 3 HH: Skin Irrit. 2	ENV: H412 HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 Chronic 3 HH: Skin Irrit. 2	ENV: H401 H412 HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 15 - ≤ 20 EO		100		ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 Chronic 3 HH: NC	ENV: H401 H412 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 20 - ≤ 25 EO				ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 25 - ≤ 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 40 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
106232-82-0	600-724-2	Alcohols, C16-20, ethoxylated		16-20	< 2.5 EO		100		ENV: Chronic 2 HH: NC	ENV: H411 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -	ENV: Acute 3 Chronic 2 HH: NC	ENV: H402 H411 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 5 EO		100		ENV: Chronic 2 HH: NC	ENV: H411 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -	ENV: Acute 2 Chronic 2 HH: NC	ENV: H401 H411 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -
			C		≥ 5 - < 6 EO				ENV: Acute 1 Chronic 3 HH: NC	ENV: H411 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox. 5 (oral)	ENV: H401 H411 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -
			C		≥ 6 - < 7 EO		100		ENV: Acute 1 Chronic 3 HH: NC	ENV: H400, H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox. 5 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400, H412 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		≥ 7 - < 10 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral)	ENV: H400 H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400 H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
			C		10 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05
			C		≥ 11 - < 14 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		14 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Acute Tox. 5 (oral) No rec. on Acute Tox. (dermal) § Eye Dam. 1	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 15 - < 25 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		≥ 25 - < 30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2A	ENV: H401 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 50 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 50 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
9005-00-9	500-017-8	Alcohols, C18, ethoxylated		18	< 2.5 EO		100		ENV: Chronic 2 HH: NC	ENV: H411 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -	ENV: Acute 3 Chronic 2 HH: NC	ENV: H402 H411 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
			C		≥ 2.5 - < 5 EO		100		ENV: Chronic 2 HH: NC	ENV: H411 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -	ENV: Acute 2 Chronic 2 HH: -	ENV: H401 H411 HH: -	ENV: - HH: -	ENV: GHS09 HH: -
			C		5 - <6 EO				ENV: Acute 1 Chronic 3 HH: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox. 5 (oral)	ENV: H400 H411 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH: -
					≥6 - <7 EO		100		ENV: Acute 1 Chronic 3 HH: NC	ENV: H400, H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 Chronic 3 HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400, H412 HH: H303	ENV: Warning HH: Warning	ENV: GHS09 HH:
					≥ 7 - < 10 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral)	ENV: H400 H412 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) No rec. on Acute Tox. (dermal) §	ENV: H400 HH: H302	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07
					10 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GSH05	ENV: Acute 1 Chronic 3 HH: Acute Tox. 4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam. I	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GSH05
					≥11 - < 14 EO		100		ENV: Chronic 3 HH: Acute Tox.4 (oral) Eye Dam I	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox.4 (oral) Eye Dam I	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					14 EO				ENV: Chronic 3 HH: Eye Dam I	ENV:H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam I	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					15 EO		100		ENV: Chronic 3 HH: Eye Dam I	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox.5 (oral) No rec. on Acute Tox. (dermal) §§ Eye Dam I	ENV: H401 H412 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
					>15 - <25 EO		100		ENV: NC HH: Acute Tox.4 (oral) Eye Dam 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox.4 (oral) No rec. on Acute Tox. (dermal) § Eye Dam 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					≥25 - <30 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2A	ENV: H401 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
			C		≥ 30 - ≤ 50 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
			C		> 50 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -

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- § No Recommendation: Instances when no or insufficient information or data is available, so that a recommendation cannot be determined (i.e. no conclusion. This also includes instances when there may be some data, but we are unable to come to harmonized classification (i.e. no classification advice). In both of these cases, it is the responsibility of companies to label according to requirements based on their own data.
- NC No Classification: if data reviewed by the group, including information obtained via read across and weight of evidence, was available as of a given date to show that classification is not needed. In case of absence of data, the assessment is based on expert judgement. All recommendations may be subject to change based on any new data.
- # Based on dossier data

Hazard statements

H228 Flammable solid
 H302 Harmful if swallowed
 H312 Harmful in contact with skin
 H314 Causes severe skin burns and eye damage
 H315 Cause skin irritation
 H318 Causes serious eye damage
 H319 Causes serious eye irritation
 H373 May cause damage to organs through prolonged or repeated exposure
 H400 Very toxic to aquatic life
 H401 Toxic to aquatic life
 H402 Harmful to aquatic life
 H410 Very toxic to aquatic life with long lasting effects
 H411 Toxic to aquatic life with long lasting effects
 H412 Harmful to aquatic life with long lasting effects
 H413 May cause long lasting harmful effects to aquatic life
 NC No classification

Hazard Pictograms

GHS05	Corrosion	
GHS07	Exclamation mark	
GHS08	Health hazard	
GHS09	Environment	
GHS02	Flammable	
-	No signal word	No pictogram

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
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Alkyl ethersulfate salts Alkyl ethersulfate salts																
Not yet assigned	939-523-2	Alkyl ether sulfate C8-10 with EO, Na salt	C	8-10	<2.5 EO	Na	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H402 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					68891-29-2	500-233-2	Alkyl ether sulfate C8-10 with EO, NH4 salt	C	8-10	<2.5 EO	NH4	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger
<2.5 EO	NH4	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1						ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
<2.5 EO	NH4	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2						ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
<2.5 EO	NH4	< 5		ENV: NC HH: NC						ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
≥ 2.5 - ≤ 10 EO	NH4	100		ENV: NC HH: No rec. §						ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
> 10 - ≤ 50 EO	NH4	100		ENV: NC HH: No rec. §						ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
> 50 EO	NH4	100		ENV: NC HH: No rec. §						ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -

* Changes with regard to list from May 2021. C = Change/N = New.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification				CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
160901-28-0 (96130-61-9)	500-465-4 (619-194-9)	Alkyl ether sulfate C9-11 with EO, Na salt (even and odd numbered, branched and linear)		9-11	<2.5 EO	Na	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
160901-27-9	500-464-9	Alkyl ether sulfate C9-11, branched and linear, with EO, NH4 salt		9-11	<2.5 EO	NH4	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	NH4	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	NH4	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	NH4	< 5		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	NH4	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	NH4	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	NH4	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
68610-66-2	614-665-5	Alkyl ether sulfate C10-12 with EO, Na salt (even and odd numbered, branched and linear)		10-12	<2.5 EO	Na	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. I	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 HH: Skin Irrit. 2 Eye Dam. I	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. I	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. I	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
68585-34-2	500-223-8	Alcohols, C10-16 (even numbered), ethoxylated, sulfates, sodium salts		10-16	<2.5 EO	Na	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. I	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. I	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. I	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. I	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENC: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
67762-21-4	500-173-7	Alkyl ether sulfate C10-16 with EO, Mg salt		10-16	<2.5 EO	Mg	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Mg	10 ≤ C < 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Mg	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Mg	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENC: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	Mg	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Mg	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Mg	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
9004-82-4	618-398-5	Alkyl ether sulfate C12 with EO, sodium salt		12	<2.5 EO	Na	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 11 EO	Na	100		ENV: Aqua. Chronic 3 HH: No rec. §	ENV: H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: No rec. §	ENV: H401 H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					12 EO	Na	> 80		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 13 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
161074-79-9	500-513-4	Alkyl ether sulfate C12-13, branched and linear, with EO, sodium salt		12-13	<2.5 EO	Na	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
				<2.5 EO	Na	10 ≤ C < 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	
				<2.5 EO	Na	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	
				<2.5 EO	Na	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	
				≥ 2.5 - ≤ 10 EO	Na	100		ENV: Aqua. Chronic 3 HH: No rec. §	ENV: H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: No rec. §	ENV: H401 H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	
				> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	
				> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	
110392-50-2	500-298-7	Alcohols, C12-13, ethoxylated, sulfates, sodium salts		12-13	<2.5 EO	Na	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
				<2.5 EO	Na	10 ≤ C < 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	
				<2.5 EO	Na	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	
				<2.5 EO	Na	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	
				≥ 2.5 - ≤ 10 EO	Na	100		ENV: Aqua. Chronic 3 HH: No rec. §	ENV: H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: No rec. §	ENV: H401 H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	
				> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	
				> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
68891-38-3	500-234-8	Alkyl ether sulfate C12-14 with EO, sodium salt	C	12-14	<2.5 EO	Na	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
125301-88-4	939-575-6	Alkyl ether sulfate C12-14 with EO, NH4 salt	C	12-14	<2.5 EO	NH4	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	NH4	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	NH4	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	NH4	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	NH4	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	NH4	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	NH4	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -

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ALKYLETHER SULFATES

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
1187742-72-8	932-185-7	Alkyl ether sulfate C12-14 with EO, MIPA salt		12-14	<2.5 EO	MIPA	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	MIPA	10 ≤ C < 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	MIPA	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	MIPA	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
160104-51-8	939-578-2	Alkyl ether sulfate C12-14 with EO, Mg salt	C	12-14	<2.5 EO	Mg	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Mg	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Mg	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Mg	< 5		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
174450-50-1	605-725-1	Alcohols, C12-14 (even numbered), ethoxylated, sulfates, triisopropanolamine salts	C	12-14	<2.5 EO	TIPA	100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: -	ENV: -	ENV: Aqua. Acute 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: -	ENV: -
					<2.5 EO	TIPA	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	TIPA	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	TIPA	< 5		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 EO	TIPA	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
125301-92-0	500-314-2	Alkyl ether sulfate C12-15 with EO, sodium salt		12-15	<2.5 EO	Na	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: No rec. §	ENV: H401 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
68081-91-4	500-189-4	Alkyl ether sulfate C12-18 with EO, sodium salt		12-18	<2.5 EO	Na	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH> Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
					≥ 2.5 - ≤ 10 EO	Na	100		ENV: Aqua. Chronic 3 HH: No rec. §	ENV: H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: No rec. §	ENV: H401 H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: No rec. §	ENV: H402 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
162063-19-6	500-675-6	Alcohols, C13-15, branched and linear, ethoxylated, sulfates, sodium salts		13-15	<2.5 EO	Na	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	10 ≤ C ≤ 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
68585-40-0	500-224-3	Alkyl ether sulfate C16-18 with EO, sodium salt	C	16-18	<2.5 EO	Na	10 ≤ C ≤ 100		ENV: Aqua. Acute 1 (M=1) Aqua. Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05	ENV: Aqua. Acute 1 (M=1) Aqua. Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
					<2.5 EO	Na	10 ≤ C ≤ 100		ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
157627-95-7	500-345-I	Alkyl ether sulfate C16-18, 18 unsat. with EO, sodium salt	C	16-18	<2.5 EO	Na	100		ENV: Aqua. Acute 1 (M=1) Aqua. Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05	ENV: Aqua. Acute 1 (M=1) Aqua. Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
					<2.5 EO	Na	10 ≤ C < 100		ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					<2.5 EO	Na	5 ≤ C < 10		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
					<2.5 EO	Na	< 5		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

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* Changes with regard to list from May 2021. C = Change/N = New.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*

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- § No Recommendation: Instances when no or insufficient information or data is available, so that a recommendation cannot be determined (i.e. no conclusion). This also includes instances when there may be some data, but we are unable to come to harmonized classification (i.e. no classification advice). In both of these cases, it is the responsibility of companies to label according to requirements based on their own data.
- NC No Classification: if data reviewed by the group, including information obtained via read across and weight of evidence, was available as of a given date to show that classification is not needed. In case of absence of data, the assessment is based on expert judgement. All recommendations may be subject to change based on any new data.
- ** No differentiation between cat. 2A and 2B done. Worst case (cat. 2A) to be applied.
- *** Environmental classification of aqueous solutions or preparations containing < 100 % surfactant should be calculated according to the rules laid down in the CLP regulation ((EC) No 1272/2008) based on the classification of the 100% substance.

Hazard statements

H228 Flammable solid
 H302 Harmful if swallowed
 H312 Harmful in contact with skin
 H314 Causes severe skin burns and eye damage
 H315 Cause skin irritation
 H318 Causes serious eye damage
 H319 Causes serious eye irritation
 H373 May cause damage to organs through prolonged or repeated exposure
 H400 Very toxic to aquatic life
 H401 Toxic to aquatic life
 H402 Harmful to aquatic life
 H410 Very toxic to aquatic life with long lasting effects
 H411 Toxic to aquatic life with long lasting effects
 H412 Harmful to aquatic life with long lasting effects
 H413 May cause long lasting harmful effects to aquatic life
 NC No classification

Hazard Pictograms

GHS05

Corrosion



GHS07

Exclamation mark



GHS08

Health hazard



GHS09

Environment



GHS02

Flammable



-

No signal word

No pictogram

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*

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Category: Anionics		Family: Alkyl sulphate salts														
142-31-4	205-535-5	Sulfuric acid, mono-octyl ester, linear, sodium salt		8	Not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: NC HH: Skin Irrit. 2 Eye Dam.1 STOTSE3	ENV: NC HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox. 5(oral) Skin Irrit. 2 Eye Dam. 1 STOTSE3	ENV: NC HH: H303 H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20%	Powder (bulk density < 400 g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 5 (oral) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H303]***** H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H303]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H318	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
126-92-1	204-812-8	Sulfuric acid, mono-(2-ethylhex-yl) ester, linear, sodium salts		8 branched	Not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: NC HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: NC HH: H303 H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 5 (oral) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H303]***** H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H303]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

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ALKYL SULFATES

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
85338-42-7	286-718-7	Sulfuric acid, mono-C8-10-alkyl esters, sodium salts		8-10	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: NC HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: NC HH: H302 H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 HH: H302 H313 H315 H318 H335	Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: NC HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Danger	ENV: - HH: GHS07	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Danger	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: Warning	ENV: - HH: GHS7	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

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* Changes with regard to list from May 2021. C = Change/N = New.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
96690-74-3	306-271-4	Sulfuric acid, mono-C8-14-alkyl esters, ammonium salts, compds. with triethanolamine		8-14	not relevant	NH4, TEA	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			NH4, TEA			≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
			NH4, TEA			100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
			NH4, TEA			≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV:*** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
			NH4, TEA			10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	
			NH4, TEA			< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral)*****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -	

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
85665-45-8	288-134-8	Sulfuric acid, mono-C8-14-alkyl esters, even numbered, linear, triethanolamine salts		8-14	not relevant	TEA	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						TEA	≥ 20	Powder (bulk density < 400 g/L)	ENV** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (in- hal.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						TEA	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						TEA	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						TEA	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						TEA	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral)*****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
90583-10-1	292-208-5	Sulfuric acid, mono-C8-14-alkyl esters, even numbered, linear, ammonium salts		8-14	not relevant	NH4	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						NH4	≥ 20	Powder (bulk density < 400 g/L)	ENV: - HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: - HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						NH4	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						NH4	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						NH4	10 < C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						NH4	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
85586-38-5	287-840-3	Sulfuric acid, mono- C8-18, magnesium and triethanolamine salts		8-18	not relevant	Mg, TEA	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Mg, TEA	≥ 20%	Powder (bulk density < 400 g/L)	ENV: - HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: - HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Mg, TEA	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Mg, TEA	≥ 20%	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Mg, TEA	10 < C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Mg, TEA	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
1072-15-7	214-002-6	Sulfuric acid, mono-C9-alkyl esters, sodium salts	9	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: NC HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: NC HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H402 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: NC HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H402 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302] ***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral)*****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
142-87-0	205-568-5	Sulfuric acid, mono-decyl ester, linear, sodium salt		10	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Na	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	
					Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -	

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
85049-86-1	285-260-5	Sulfuric acid, mono-C10-C12-alky esters, even numbered, linear, sodium salts		10-12	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: NC HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: NC HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2** Eye Dam. 1 STOT SE 3	ENV: H401 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2** Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: NC HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2** Eye Dam. 1	ENV: H401 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2** Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral)*****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
151-21-3	205-788-1	Sodium dodecyl sulphate		12	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Ccute 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	10 ≤ C < 20	Granules (solid material of bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (solid material of bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral)*****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
2044-56-6	218-058-2	Sulfuric acid, mono-C12-alkyl esters, even numbered, linear, lithium salts		12	not relevant	Li	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					Li	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Li	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Coute 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Li	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Li	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	
					Li	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -	

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
94200-74-5	303-553-9	Sodium 2- butyloctyl sulfate		12 branched	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Na	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Cute 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
					Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	
					Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral)*****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -	

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
1231880-35-5	931-974-3	Sulfuric acid, mono (C12-13- branched and linear alkyl) esters, sodium salts		12-13 branched	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			Na			≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
			Na			100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
			Na			≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
			Na			10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	
			Na			< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -	

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
85586-07-8	287-809-4	Sulfuric acid, C12-14-alkyl (even numbered) esters, sodium salts		12-14	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
90583-18-9	292-216-9	Sulfuric acid, mono-C12-14-alkyl esters, even numbered, linear, triethanolamine salts		12-14	not relevant	TEA	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						TEA	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						TEA	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						TEA	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						TEA	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox.(oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						TEA	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
90583-11-2	292-209-0	Sulfuric acid, C12-14-alkyl (even numbered) esters, ammonium salts		12-14	not relevant	NH4	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						NH4	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						NH4	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						NH4	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** [H313]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						NH4	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						NH4	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral) *****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
1268005-68-0	waiting for EC number	Sulfuric acid, mono-C12-14-alkyl esters, even numbered, linear, potassium salts		12-14	not relevant	K	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H302 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 4 (inhal.) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 H302 H313 H315 H318 H332 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						K	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Acute Tox. 4 (oral) ***** Acute Tox. 4 (inhal.) ***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 4 (inhal.)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H302]***** [H313]***** H315 H318 [H332]***** H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						K	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. 5 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						K	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral)***** Acute Tox. 5 (derm.)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302] [H313] H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						K	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Acute Tox. (oral) ***** Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox. (oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: [H302]***** H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						K	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: Acute Tox. (oral)*****	ENV: *** HH: [H302]*****	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification				CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
73296-89-6	277-362-3	Sulfuric acid, C12-16-alkyl (even numbered) esters, sodium salts		12-16	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H303 H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV** HH: Acute Tox. 5 (oral)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H303]***** H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (oral)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H303]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

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* Changes with regard to list from May 2021. C = Change/N = New.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
68955-19-1	273-257-1	Sulfuric acid, C12-18-alkyl (even numbered) esters, sodium salts		12-18	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H303 H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: - HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: - HH: Acute Tox. 5 (oral)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H303]***** H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (oral)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H303]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

* Changes with regard to list from May 2021. C = Change/N = New.

Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
68955-20-4	273-258-7	Sulfuric acid, mono-C16-18-alkyl esters, even numbered, linear, sodium salts		16-18	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H303 H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	> 55	Powder (bulk density < 400 g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 5 (oral)***** Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: [H303]***** H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H402 H412 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	> 55	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (oral)***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H303]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	20 < C ≤ 55	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	≤ 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
1394155-71-5	-	Sulfuric acid, mono-(C16-18 and 18 –unsatd.alkyl) esters, even numbered, linear, sodium salts		16-18, 18 unsat.	not relevant	Na	100%	Powder (bulk density < 400 g/L)	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H412 HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: H401 H412 HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	≥ 20	Powder (bulk density < 400 g/L)	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1 STOT SE 3	ENV: *** HH: H315 H318 H335	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
						Na	100%	Granules (bulk density ≥ 400g/L)	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	≥ 20	Granules (bulk density ≥ 400g/L)	ENC*** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
						Na	10 ≤ C < 20	Granules (bulk density ≥ 400g/L)	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
						Na	< 10	Granules (bulk density ≥ 400g/L)	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

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- § No Recommendation: Instances when no or insufficient information or data is available, so that a recommendation cannot be determined (i.e. no conclusion). This also includes instances when there may be some data, but we are unable to come to harmonized classification (i.e. no classification advice). In both of these cases, it is the responsibility of companies to label according to requirements based on their own data.
- ** No differentiation between cat. 2A and 2B done. Worst case (cat. 2A) to be applied.
- *** Environmental classification of aqueous solutions or preparations containing < 100 % surfactant should be calculated according to the rules laid down in the CLP regulation ((EC) No 1272/2008) based on the classification of the 100% substance.
- ***** For lower classification limits please refer to CLP default mixture dilution rules (e.g. 10%, 5 %, 3% and/or 1%) and/or ATE formular.

Hazard statements

H228 Flammable solid
 H302 Harmful if swallowed
 H312 Harmful in contact with skin
 H314 Causes severe skin burns and eye damage
 H315 Cause skin irritation
 H318 Causes serious eye damage
 H319 Causes serious eye irritation
 H373 May cause damage to organs through prolonged or repeated exposure
 H400 Very toxic to aquatic life
 H401 Toxic to aquatic life
 H402 Harmful to aquatic life
 H410 Very toxic to aquatic life with long lasting effects
 H411 Toxic to aquatic life with long lasting effects
 H412 Harmful to aquatic life with long lasting effects
 H413 May cause long lasting harmful effects to aquatic life
 NC No classification

Hazard Pictograms

GHS05	Corrosion	
GHS07	Exclamation mark	
GHS08	Health hazard	
GHS09	Environment	
GHS02	Flammable	
-	No signal word	No pictogram

ANIONIC SURFACTANTS, OTHERS

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

Category: Anionics		Family: Alpha Olefin Sulfonates		Typical chemical ingredient: C14-16 Alpha Olefin Sulfonates												
68439-57-6	931-534-0	Sulfonic acids, C14-16 (even numbered) -alkane hydroxy and C14-16 (even numbered) -alkene, sodium salts		14-16	-	Na	100	-	ENV: NC HH: Eye Dam.1 Skin Irrit.2	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam. 1 Skin Irrit. 2	ENV: H401 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
68439-57-6	931-534-0	Sulfonic acids, C14-16 (even numbered) -alkane hydroxy and C14-16 (even numbered) -alkene, sodium salts		14-16	-	Na	> 38	-	ENV: *** HH: Eye Dam. 1 Skin Irrit. 2	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox (oral) ***** Eye Dam. 1 Skin Irrit. 2	ENV: *** HH: H303***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
68439-57-6	931-534-0	Sulfonic acids, C14-16 (even numbered) -alkane hydroxy and C14-16 (even numbered) -alkene, sodium salts		14-16	-	Na	5 < C ≤ 38	-	ENV: *** HH: Eye Irrit. 2 Skin Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2B Skin Irrit. 2	ENV: *** HH: H315 H320	ENV: - HH: Warning	ENV: - HH: GHS07
68439-57-6	931-534-0	Sulfonic acids, C14-16 (even numbered) -alkane hydroxy and C14-16 (even numbered) -alkene, sodium salts		14-16	-	Na	≥ 5	-	ENV: *** HH: Skin Irrit. 2	ENV: *** HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2	ENV: *** HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07
Category: Anionics		Family: Linear alkyl benzene sulphonic acid and Na-salts														
85536-14-7	287-494-3	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.		10-13	-	H	100	-	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. 1	ENV: H412 HH: H302 H314 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. 1	ENV: H401 HH: H412 H302 H314 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68411-30-3	270-115-0	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts		10-13	-	Na	100	-	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H412 H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

Category: Anionics		Family: CaDBDS		Typical chemical ingredient: Linear Calcium Salts of Alkyl benzene sulfonic acid												
26264-06-2 84989-14-0 90194-36-8 90194-36-8 1335202-81-7	932-231-6	Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts		10-13	-	Ca	100	-	ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Eye Dam. 1 Skin Irrit. 2	ENV: H401 H412 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
68953-96-8	273-234-6	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts with <3% Benzene, mono-C11-C13-branched alkyl derivatives EC 810-801-4		10-13	-	Ca	100	-	ENV: Chronic 2 HH: Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam.1	ENV: H411 HH: H312 H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 3 Chronic 2 HH: Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H402 H411 HH: H312 H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS07
68953-96-8	273-234-6	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts with ≥ 3% Benzene, mono-C11-C13-branched alkyl derivatives EC 810-801-4	C	10-13	-	Ca	100	-	ENV: Chronic 2 HH: Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam.1 Repr. 2	ENV: H411 HH: H312 H315 H318 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08	ENV: Acute 3 Chronic 2 HH: Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H402 H411 HH: H312 H315 H318 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08
Category: Anionics		Family: Linear alkylbenzenesulphonic acid other salts than sodium and Calcium (LABS)		Typical chemical ingredient: Benzenesulfonic acid, mono-alkyl derivs., compds. with alkanolamine												
26836-07-7, 85480-55-3, 99924-49-9, 85995-82-0, 68910-32-7	287-335-8	Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		10-13	-	MEA	100	-	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Pending	ENV: H401 H412 HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
121617-08-1, 68411-31-4, 68584-25-8, 27323-41-7, 85480-56-4, 90194-42-5	939-464-2	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	C	10-13	-	TEA	≥50-100	-	ENV: Chronic 3 HH: Eye Dam. 1 Skin Corr. 1C	ENV: H412 HH: H314 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Others pending	ENV: H401 H412 HH: H303 Others pending	ENV: - HH: Pending	ENV: - HH: Pending
121617-08-1, 68411-31-4, 68584-25-8, 27323-41-7, 85480-56-4, 90194-42-6	939-464-2	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	C	10-13	-	TEA	<50	-	ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Others pending	ENV: H401 H412 HH: H303 Others pending	ENV: - HH: Pending	ENV: - HH: Pending
84961-74-0	284-664-9	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine		10-13	-	2-PA	100	-	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Irrit. 2	ENV: H412 HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Chronic 3 HH: Pending	ENV: H412 HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending

* Changes with regard to list from May 2021. C = Change/N = New.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
85995-83-1	289-091-8	Benzenesulfonic acid, 2(or 4)-C10-14-alkyl derivs., compds. with isopropanolamine		10-13	-	IPA	100	-	ENV: Chronic 3 HH: No rec. §	ENV: 412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 Chronic 3 HH: No rec. §	ENV: H401 H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
Category: Anionics Family: Branched alkyl benzene sulphonic acid and salt Typical chemical ingredient: Branched alkyl benzene sulphonic acids																
68608-88-8	271-807-5	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs. with <3% Benzene, mono-C11-C13-branched alkyl derivatives EC 810-801-4		11-13	-	H	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. 1	ENV: H400 H411 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. 1	ENV: H400 H411 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 GHS05 GHS07
68608-88-8	271-807-5	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs. with ≥3% Benzene, mono-C11-C13-branched alkyl derivatives EC 810-801-4	C	11-13	-	H	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. 1 Repr. 2	ENV: H400 H411 HH: H302 H314 H318 H361	ENV: Warning HH: Danger	ENV: GHS09 GHS05 GHS07 GHS08	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. 1 Repr. 2	ENV: H400 H411 HH: H302 H314 H318 H361	ENV: Warning HH: Danger	ENV: GHS09 GHS05 GHS07 GHS08
68608-89-9	271-808-0	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., sodium salts with <3% Benzene, mono-C11-C13-branched alkyl derivatives EC 810-801-4		11-13	-	Na	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H302 H312 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H302 H312 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
68608-89-9	271-808-0	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., sodium salts with ≥3% Benzene, mono-C11-C13-branched alkyl derivatives EC 810-801-4	C	11-13	-	Na	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H400 H411 HH: H302 H312 H315 H318 H361	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H400 H411 HH: H302 H312 H315 H318 H361	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08
Category: Anionics Family: Ether carboxylic acids and salts Typical chemical ingredient: Alkylether carboxylic acid																
53563-70-5; 107600-33-9	NA	Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-, omega-(octyloxy).		8	≥2.5-10 EO	H	100	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Skin Irrit. 3 Eye Dam. 1	ENV: H402 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05
27306-90-7; 68954-89-2	NA	Poly(oxy-1,2-ethanediyl), .alpha-(carboxymethyl)-omega-(dodecyloxy)		12	≥2.5-<7 EO	H	100	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Skin Irrit. 3 Eye Dam. 1	ENV: H401 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05
27306-90-7; 68954-89-2	NA	Poly(oxy-1,2-ethanediyl), .alpha-(carboxymethyl)-omega-(dodecyloxy)		12	≥7-10 EO	H	100	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Skin Irrit. 3 Eye Dam. 1	ENV: H402 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
68412-55-5	NA	Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.ome- ga-(tridecyloxy)-, branched		13	7 EO	H	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Skin Irrit. 3 Eye Dam. I	ENV: No rec. § HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05
-		Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.- (C11-14-iso-,C13-rich)		C11-14-iso- ,C13-rich												
220622-96-8	NA	Poly(oxy-1,2-ethanediyl), al- pha-(carboxymethyl)-omega-hy- droxy-, C12-14-alkyl (even numbered)ethers		12-14	≥2.5-7 EO	H	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Skin Irrit. 3 Eye Dam. I	ENV: H401 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05
220622-96-8	NA	Poly(oxy-1,2-ethanediyl), al- pha-(carboxymethyl)-omega-hy- droxy-, C12-14-alkyl (even numbered)ethers		12-14	≥7-10 EO	H	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Skin Irrit. 3 Eye Dam. I	ENV: H402 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05
119147-75-0	NA	Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-omega-hy- droxy-, C14-15-alkyl ethers		14-15 b&l	7 EO	H	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Skin Irrit. 3 Eye Dam. I	ENV: H401 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05
		Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-omega-hy- droxy-, C14-15-branched and linear-alkyl ethers														
227310-69-2	946-061-5	Poly(oxy-1,2-ethanediyl),α-(car- boxymethyl)-ω-hydroxy-, C16-18 (even numbered) and C18-unsatd.alkyl ethers	C	16-18	<2.5 EO	H	100	-	ENV: Chronic 2 HH: Eye Dam. I	ENV: H411 HH: H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05	ENV: Acute 2 Chronic 2 HH: Skin Irrit. 3 Eye Dam. I	ENV: H401 H411 HH: H316 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05
227310-69-2	NA	Poly(oxy-1,2-ethanediyl),α-(car- boxymethyl)-ω-hydroxy-, C16-18 (even numbered) and C18-unsatd.alkyl ethers		16-18	≥2.5-10 EO	H	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Skin Irrit. 3 Eye Dam. I	ENV: H401 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05
57635-48-0	NA	Poly(oxy-1,2-ethanediyl), alpha-(carboxyme- thyl)-omega-((9Z)-9-octade- cenyloxy)-.Ethoxylated ≥2,5 - 10 EO		18	≥2.5-10 EO	H	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Skin Irrit. 3 Eye Dam. I	ENV: H401 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05

* For further explanation on hazard statements and pictograms see at the end of the table.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
33939-64-9	NA	Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)- .omega.-(dodecyloxy)-, sodium salt. Ethoxylated ≥2,5-5 EO		12	≥2.5-5 EO	Na	≤ 20	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2**	ENV: H401 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
70632-06-3	NA	Polyethylene glycol carbox- ymethyl C12-14-alkyl (even numbered) ether sodium salts. Ethoxylated ≥2,5-5 EO		12-14	≥2.5-5 EO	Na	100	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Skin Irrit. 3 Eye Dam. 1	ENV: H401 HH: H316 H318	ENV: - HH: Danger	ENV: - HH: GHS05
Category: Anionics Family: Fatty alcohol phosphoric acid esters Typical chemical ingredient: Alkyl phosphate esters																
76483-21-1	278-477-1	Phosphoric acid, 1-methylethyl ester		3	-	-	95****	-	ENV: NC HH: Acute Tox 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
107-66-4	203-509-8	Phosphoric acid, dibutyl ester	C	4	-	-	100	-	ENV: NC HH: Skin Corr. 1B Eye Dam. 1 Carc. 2	ENV: NC HH: H314 H318 H351	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07 GHS08	ENV: No rec. § HH: Skin Corr. 1B Eye Dam. 1 Carc. 2	ENV: No rec. § HH: H314 H318 H351	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07 GHS08
1623-15-0	216-604-4	Butyl dihydrogen phosphate		4	-	-	100	-	ENV: NC HH: Skin Corr. 1B	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
12788-93-1	235-826-2	Phosphoric acid, butyl ester		4	-	-	100	-	ENV: No rec. § HH: Skin Corr. 1B	ENV: No rec. § HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
90506-76-6	291-941-8	Phosphoric acid, mono- and di-iso-Bu esters		iso-4	-	-	100	-	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
12789-46-7	235-827-8	Phosphoric acid, pentyl ester		5	-	-	100	-	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
12645-31-7	235-741-0	Phosphoric acid, 2-ethylhexyl ester		iso-8	-	-	100	-	ENV: NC HH: Skin Corr. 1B	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
90506-69-7	291-933-4	Phosphoric acid, mono- and bis(2-ethylhexyl) esters		iso-8	-	-	100	-	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
298-07-7	206-056-4	bis(2-ethylhexyl) hydrogen phosphate		di-C8	-	-	95****	-	ENV: No rec. § HH: Skin Corr. 1B	ENV: No rec. § HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
97468-24-1	306-976-7	Phosphoric acid, mono- and bis(C8-10-branched and linear alkyl) esters		8-10	-	-	100	-	ENV: NC HH: Skin Corr. 1B	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
68908-60-1	272-679-3	Phosphoric acid, mono-C9-11- alkyl esters		9-11	-	-	100	-	ENV: NC HH: Skin Corr. 1B	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
12751-23-4	235-799-7	Phosphoric acid, dodecyl ester		12	-	-	100	-	ENV: NC HH: Skin Corr. 1B	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
68412-63-5	270-201-8	Phosphoric acid, C12-15-alkyl esters		12-15	-	-	100	-	ENV: NC HH: Skin Corr. 1B	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
97468-31-0	306-984-0	Phosphoric acid, mono- and bis(C12-18-branched and linear) alkyl esters		12-18	-	-	100	-	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
52933-07-0 154518-38-4	800-484-0	Phosphoric acid, isotridecyl ester Phosphoric acid, mono- and di-C11-14 (linear and branched) alkyl esters		13 11-14	-	-	100	-	ENV: Chronic 2 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H411 HH: H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05	ENV: Acute 2 Chronic 2 HH: Pending	ENV: H401 H411 HH: Pending	ENV: No signal word HH: Pending	ENV: GHS09 HH: Pending
3539-43-3	222-581-1	Hexadecyl dihydrogen phosphate		16	-	-	100	-	ENV: NC HH: Eye Dam. 1 Skin Irrit. 2	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
68814-13-1	272-336-8	1-Hexadecanol, phosphate		16	-	-	100	-	ENV: NC HH: See dilution	ENV: NC HH: See dilution	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
68814-13-1	272-336-8	1-Hexadecanol, phosphate		16	-	-	30	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
-	939-526-9	Phosphoric acid, mono- and di-C16-18 (even numbered) alkyl esters		16-18	-	-	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
39471-52-8	254-466-7	Phosphoric acid, octadecyl ester		18	-	-	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
97553-81-6	307-243-4	Phosphoric acid, mono- and bis(branched and linear stearyl) esters		18	-	-	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
Category: Anionics Family: Fatty alcohol phosphoric acid esters salts Typical chemical ingredient: Alkyl phosphate ester salt																
90605-13-3		Phosphoric acid, 2-methylpropyl ester, potassium salt		4	-	K	100	-	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
90605-12-2	292-410-3	Phosphoric acid, 2-methylpropyl ester, ammonium salt		4	-	NH4	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
93919-64-3	300-049-0	Phosphoric acid, 2-methylpropyl ester, compd. with 2,2',2"-nitrioltris[ethanol]		4	-	TEA	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification				CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
53126-06-0	258-379-5	Phosphoric acid, butyl ester, potassium salt		4	-	K	100	-	ENV: NC HH: See dilution	ENV: NC HH: See dilution	ENV: - HH: See dilution	ENV: - HH: See dilution	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
53126-06-0	258-379-5	Phosphoric acid, butyl ester, potassium salt		4	-	K	50****	-	ENV: NC HH: Eye Irrit. 2 Skin Irrit. 2	ENV: NC HH: H319 H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
68647-25-6	271-945-6	Ethanol, 2-(2-butoxyethoxy)-, phosphate, potassium salt		8	-	K	100	-	ENV: NC HH: See dilution	ENV: NC HH: See dilution	ENV: - HH: See dilution	ENV: - HH: See dilution	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
68647-25-6	271-945-6	Ethanol, 2-(2-butoxyethoxy)-, phosphate, potassium salt		8	-	K	45****	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
-	-	Decylphosphoric acid, potassium salt		10	-	K	100	-	ENV: NC HH: See dilution	ENV: NC HH: See dilution	ENV: - HH: See dilution	ENV: - HH: See dilution	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
-	-	Decylphosphoric acid, potassium salt		10	-	K	45****	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Acute Tox. 5 (oral) Eye Dam. I	ENV: No rec. § HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
90506-35-7	291-895-9	Phosphoric acid, C12-14-alkyl esters, compds with triethanolamine		12-14	-	TEA	100	-	ENV: NC HH: See dilution	ENV: NC HH: See dilution	ENV: - HH: See dilution	ENV: - HH: See dilution	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
90506-35-7	291-895-9	Phosphoric acid, C12-14-alkyl esters, compds with triethanolamine		12-14	-	TEA	60****	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
19035-79-1	242-768-1	Potassium hexadecyl hydrogen phosphate		16	-	K	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
68412-62-4	270-200-2	Phosphoric acid, di-C4-18-alkyl esters, ammonium salts		4-18	-	NH4	100	-	ENV: NC HH: See dilution	ENV: NC HH: See dilution	ENV: - HH: See dilution	ENV: - HH: See dilution	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
68412-62-4	270-200-2	Phosphoric acid, di-C4-18-alkyl esters, ammonium salts		4-18	-	NH4	80****	-	ENV: NC HH: Eye Irrit. 2 Skin Irrit. 2	ENV: NC HH: H319 H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
90506-18-6	291-877-0	Phosphoric acid, C8-16-alkyl esters, compds with diethanolamine		8-16	-	DEA	100	-	ENV: NC HH: Skin Irrit. 2	ENV: NC HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Pending	ENV: No rec. § HH: Pending	ENV: - HH: Pending	ENV: - HH: Pending
Category: Anionics		Family: Alkyl EO phosphate esters														
68439-39-4	NA	Poly(oxy-1,2-ethanediyl), α-(2-ethylhexyl)-ω-hydroxy-, phosphate		2-EH	3-20 EO	H	100	-	ENV: Chronic 3 HH: Skin irrit. 2 Eye Dam. I	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 Skin irrit. 2 Eye Dam. I	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

* Changes with regard to list from May 2021. C = Change/N = New.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
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68439-39-4	NA	Poly(oxy-1,2-ethanediyl), α-(2-ethylhexyl)-ω-hydroxy-, phosphate		2-EH	3-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68610-21-9	NA	Poly(oxy-1,2-ethanediyl), α-butyl-ω-hydroxy-, phosphate		4	3-20 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68610-21-9	NA	Poly(oxy-1,2-ethanediyl), α-butyl-ω-hydroxy-, phosphate		4	3-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68130-47-2	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C8-10-alkyl ethers, phosphates		8-10	3-20 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68130-47-2	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C8-10-alkyl ethers, phosphates		8-10	3-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-66-9	NA	Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-, phosphate		12	3-4 EO	H	100	-	ENV: Acute 1 (M=1) Chronic 3 HH: Skin irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
39464-66-9	NA	Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-, phosphate		12	5-7 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Skin irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-66-9	NA	Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-, phosphate		12	8-11 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Skin irrit. 2 Eye Dam. 1	ENV: H402 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-66-9	NA	Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-, phosphate		12	12-20 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-66-9	NA	Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-, phosphate		12	3-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
73038-25-2	NA	Poly(oxy-1,2-ethanediyl), α-isotr-idecyl-ω-hydroxy-, phosphate		iso-13	3 EO	H	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07

* For further explanation on hazard statements and pictograms see at the end of the table.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
73038-25-2	NA	Poly(oxy-1,2-ethanediyl), α-isotr-idecyl-ω-hydroxy-, phosphate		iso-13	5-20 EO	H	100	-	ENV: Chronic 2 HH: Skin irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 2 Chronic 2 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H401 H411 HH: H303 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
73038-25-2	NA	Poly(oxy-1,2-ethanediyl), α-isotr-idecyl-ω-hydroxy-, phosphate		iso-13	5-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
9046-01-09	NA	Poly(oxy-1,2-ethanediyl), α-tride-cyl-ω-hydroxy-, phosphate		13	5-20 EO	H	100	-	ENV: Chronic 3 HH: Skin irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 Chronic 3 HH: Skin irrit. 2 Eye Dam. 1	ENV: H402 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
9046-01-09	NA	Poly(oxy-1,2-ethanediyl), α-tride-cyl-ω-hydroxy-, phosphate		13	5-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68511-37-5	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12-14-alkyl ethers, phosphates		12-14	3-4 EO	H	100	-	ENV: Acute 1 (M=1) Chronic 3 HH: Skin irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H303 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
68511-37-5	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12-14-alkyl ethers, phosphates		12-14	5-7 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68511-37-5	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12-14-alkyl ethers, phosphates		12-14	8-11 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H402 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68511-37-5	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12-14-alkyl ethers, phosphates		12-14	12-20 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68511-37-5	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12-14-alkyl ethers, phosphates		12-14	3-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

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68071-35-2	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12- 15-alkyl ethers, phosphates		12-15	3-20 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68071-35-2	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12- 15-alkyl ethers, phosphates		12-15	3-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
155240-11-2	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12- 18-alkyl ethers, phosphates		12-18	3-20 EO	H	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
155240-11-2	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C12- 18-alkyl ethers, phosphates		12-18	3-20 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-69-2	NA	Poly(oxy-1,2-ethanediyl), α-(9Z)- 9-octadecen-1-yl-ω-hydroxy-, phosphate		18	3-4 EO	H	100	-	ENV: No rec. § HH: Skin Irrit. 2 Eye Dam. 1	ENV: No rec. § HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: No rec. § HH: Skin Irrit. 2 Eye Dam. 1	ENV: No rec. § HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-69-2	NA	Poly(oxy-1,2-ethanediyl), α-(9Z)- 9-octadecen-1-yl-ω-hydroxy-, phosphate		18	3-4 EO	H	≥ 85	-	ENV: No rec. § HH: Skin irrit. 2 Eye Dam. 1	ENV: No rec. § HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-69-2	NA	Poly(oxy-1,2-ethanediyl), α-(9Z)- 9-octadecen-1-yl-ω-hydroxy-, phosphate		18	5-6 EO	H	100	-	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 GHS05 GHS07
39464-69-2	NA	Poly(oxy-1,2-ethanediyl), α-(9Z)- 9-octadecen-1-yl-ω-hydroxy-, phosphate		18	5-6 EO	H	≥ 85	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-69-2	NA	Poly(oxy-1,2-ethanediyl), α-(9Z)- 9-octadecen-1-yl-ω-hydroxy-, phosphate		18	12-20 EO	c	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Skin irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
39464-69-2	NA	Poly(oxy-1,2-ethanediyl), α-(9Z)- 9-octadecen-1-yl-ω-hydroxy-, phosphate		18	12-20 EO	H	95****	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
Category: Anionics Family: Alkyl EO phosphate ester, salts Typical chemical ingredient: Branched Alkyl EO phosphate esters, Na salt																
111798-26-6	NA	Poly(oxy-1,2-ethanediyl), α-(2-ethylhexyl)-ω-hydroxy-, phosphate, sodium salt		iso-C8	3 EO	Na	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
111798-26-6	NA	Poly(oxy-1,2-ethanediyl), α-(2-ethylhexyl)-ω-hydroxy-, phosphate, sodium salt		iso-C8	3 EO	Na	85****	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68070-99-5	NA	Poly(oxy-1,2-ethanediyl), α-decyl-ω-hydroxy-, phosphate, potassium salt		I0	4 EO	K	100	-	ENV: NC HH: Skin Irrit. 2 Eye Irrit. 2	ENV: NC HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Skin Irrit. 2 Eye Irrit. 2	ENV: NC HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
215125-05-6	NA	Ethanol, 2,2',2''-nitrilotris-, compd. with α-decyl-ω-hydroxypoly(oxy-1,2-ethanediyl) phosphate		I0	4 EO	TEA	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
-	NA	Poly(oxy-1,2-ethanediyl), α-phosphono-ω-hydroxy-, C12-14-alkyl ethers, sodium salt		I2-14	4 EO	Na	100	-	ENV: NC HH: Skin Irrit. 2	ENV: NC HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Skin Irrit. 2	ENV: NC HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07
68954-88-1	NA	Poly(oxy-1,2-ethanediyl), α-phosphono-ω-hydroxy-, C12-20-alkyl ethers, sodium salt		I2-20	8-10EO	Na	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: No rec. §	ENV: H400 H411 HH: No rec. §	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=1) Chronic 2 HH: No rec. §	ENV: H400 H411 HH: No rec. §	ENV: Warning HH: -	ENV: GHS09 HH: -
119415-05-3	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C16-20-alkyl ethers, phosphates, sodium salt		I6-20	4 EO	Na	100	-	ENV: NC HH: Skin Irrit. 2	ENV: NC HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Skin Irrit. 2	ENV: NC HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07
68412-53-3	NA	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates		Nonylphenol	6-12 EO	H	100	-	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 Chronic 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H402 H412 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68412-53-3	NA	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates		Nonylphenol	6-12 EO	H	≥ 63	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68412-53-3	NA	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates		Nonylphenol	>12 EO	H	100	-	ENV: Chronic 4 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H413 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Chronic 4 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H413 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
37340-60-6	NA	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-,phosphates		Nonylphenol	7 EO	Na	100	-	ENV: No rec. § HH: Skin Irrit. 2 Eye Dam. 1	ENV: No rec. § HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: No rec. § HH: Skin Irrit. 2 Eye Dam. 1	ENV: No rec. § HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
Category: Anionics		Family: Fatty acid methyl ester Sulphonate														

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

Category: Anionics Family: Fatty acid methyl ester Sulphonate

* Changes with regard to list from May 2021. C = Change/N = New.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
4016-21-1	223-673-4	Sodium 1-methyl 2-sulphonato-dodecanoate		12	-	Na	100	-	ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Eye Dam. 1	ENV: H401 H412 H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
85681-86-3; 85186-99-8	947-394-9 (formerly 288-224-7 and 286-085-7)	Fatty acids, C12-18 (even num- bered)-methyl esters, sulfonated, sodium salts (Formerly Fatty acids, C12-18, α-sulfo, 1-Me esters, sodium salts and Fatty acids, C12-18, α-sulfo, disodium salts)		12-18	-	Na	100	-	ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Eye Dam. 1	ENV: H401 H412 H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
Category: Anionics Family: Alkyl sulphate salts Typical chemical ingredient: See AS specific worksheet																
Category: Anionics Family: Alkyl ethersulfate salts Typical chemical ingredient: See AES specific worksheet																
Category: Anionics Family: Sulfosuccina(ma)tes																
127-39-9	204-839-5	Sodium 1,2-diisobutoxycarbony- lethanesulphonate		C4 branched	-	Na	100	-	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox.5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
23386-52-9	245-629-3	Sodium 1,4-dicyclohexyl sulphonatosuccinate		C6 cyclo	-	Na	100	-	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox.5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
2373-38-8	219-147-9	Butanedioic acid, sulfo-, 1,4-bis(1,3-dimethylbutyl) ester, sodium salt		6-branched	-	Na	100	-	ENV: NC HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: NC HH: Acute Tox. 4 (oral) Acute Tox. 5 (dermal) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H302 H313 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
577-11-7	209-406-4	Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodi- um salt; Docusate, sodium salt		C 8 branched	-	Na	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H402 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

* Changes with regard to list from May 2021. C = Change/N = New.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
29857-13-4	249-894-6	Butanedioic acid, sulfo-, 1,4-diisodecyl ester, sodium salt	C	10 branched	-	Na	100	-	ENV: Acute 1 (M=1) Chronic 1 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 H410 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 1 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H410 HH: H303 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
(former CAS 25882-44-4)	(939-648-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxododecyl)amino]ethyl] ester, disodium salt		12	-	Na	100	-	ENV: NC HH: Skin Irrit. 2 Eye Irrit. 2	ENV: NC HH: 315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Skin Irrit. 2 Eye Irr.. 2**	ENV: H402 HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 25882-44-4)	(939-648-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxododecyl)amino]ethyl] ester, disodium salt		12	-	Na	> 40	-	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 25882-44-4)	(939-648-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxododecyl)amino]ethyl] ester, disodium salt		12	-	Na	10 < C ≤ 40	-	ENV: *** HH: Skin Irrit. 2	ENV: *** HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2	ENV: *** HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 25882-44-4)	(939-648-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxododecyl)amino]ethyl] ester, disodium salt		12	-	Na	≤ 10	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
90268-37-4	939-638-8	Butanedioic acid, sulfo-, 4-C12-14 (even numbered) alkyl esters, disodium salts		12-14	-	Na	100	-	ENV: NC HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H402 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
90268-37-4	939-638-8	Butanedioic acid, sulfo-, 4-C12-14 (even numbered) alkyl esters, disodium salts		12-14	-	Na	> 20	-	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox. 4 (oral) ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
90268-37-4	(939-638-4)	Butanedioic acid, sulfo-, 4-C12-14 (even numbered) alkyl esters, disodium salts		12-14	-	Na	5 < C ≤ 20	-	ENV: *** HH: Acute Tox.(oral) ***** Eye Irrit. 2	ENV: *** HH: [H302]***** H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox (oral). ***** Eye Irrit. 2**	ENV: *** HH: [H302]***** H319	ENV: - HH: Warning	ENV: - HH: GHS07
90268-37-4	(939-638-4)	Butanedioic acid, sulfo-, 4-C12-14 (even numbered) alkyl esters, disodium salts		12-14	-	Na	≤ 5	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
90268-36-3	290-836-4	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts		12-18	-	Na	100	-	ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07

* For further explanation on hazard statements and pictograms see at the end of the table.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
(former CAS 68784-08-7)	(939-637-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxo(C12-C18 (even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts		12-18, 18 unsat.	-	Na	100	-	ENV: NC HH: Skin Irrit. 2 Eye Irrit. 2	ENV: NC HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: H402 HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 68784-08-7)	(939-637-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxo(C12-C18 (even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts		12-18, 18 unsat.	-	Na	> 20	-	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 68784-08-7)	(939-637-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxo(C12-C18 (even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts	C	12-18, 18 unsat.	-	Na	10 < C ≤ 20	-	ENV: *** HH: Skin Irrit. 2	ENV: *** HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2	ENV: *** HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 68784-08-7)	(939-637-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxo(C12-C18 (even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts	C	12-18, 18 unsat.	-	Na	≤ 10	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
55184-72-0 (former 2673-22-5)	259-515-6 (former 220-219-7)	Butanedioic acid, sulfo-, 1,4-di-isotridecyl ester, sodium salt		13 branched	-	Na	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 2 Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H411 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
(former CAS 14481-60-8)	939-691-7	Butanoic acid, 4-amino-4-oxo-2(or 3)-sulfo-,N-(C16-C18 (even numbered), C18 unsaturated alkyl)), disodium salts		16-18, 18 unsat.	-	Na	100	-	ENV: NC HH: Repro 1B Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H360fd H315 H318	ENV: - HH: Danger	ENV: - HH: GHS08 GHS05 GHS07	ENV: Acute 2 HH: Repro. 1B Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H360fd H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS08 GHS05 GHS07
(former CAS 14481-60-8)	939-691-7	Butanoic acid, 4-amino-4-oxo-2(or 3)-sulfo-,N-(C16-C18 (even numbered), C18 unsaturated alkyl)), disodium salts		16-18, 18 unsat.	-	Na	> 25.5	-	ENV: *** HH: Repro 1B Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H360fd H315 H318	ENV: - HH: Danger	ENV: - HH: GHS08 GHS05 GHS07	ENV: *** HH: Repro. 1B Acute Tox (oral). 5 ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H360fd [H303]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS08 GHS05 GHS07

* For further explanation on hazard statements and pictograms see at the end of the table.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
(former CAS 14481-60-8)	939-691-7	Butanoic acid, 4-amino-4-oxo-2(or 3)-sulfo-N-(C16-C18 (even numbered), C18 unsaturated alkyl)), disodium salts		16-18, 18 unsat.	-	Na	≤ 25.5	-	ENV: *** HH: Repr. 1B, Eye Irrit. 2	ENV: *** HH: H360fd H319	ENV: - HH: Warning Danger	ENV: - HH: GHS08 GHS07	ENV: *** HH: Repr. 1B Acute Tox (oral). 5 ***** Eye Irrit. 2**	ENV: *** HH: H360fd [H303]***** H319	ENV: - HH: Danger	ENV: - HH: GHS08 GHS07
147993-66-6	604-617-1	Butanedioic acid,sulfo-, mono (C16-18 and C18-unsatd. alkyl) ester, ammonium sodium salt	C	16-18, 18 unsat.	-	NH4/Na	100	-	ENV: Acute 1 (M=1) Chronic 3 HH: Repr. 2 Skin Irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H361f H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08	ENV: Acute 1 (M=1) Chronic 3 HH: Repr. 2 Skin Irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H361f H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08
147993-66-6	604-617-1	Butanedioic acid,sulfo-, mono (C16-18 and C18-unsatd. alkyl) ester, ammonium sodium salt		16-18, 18 unsat.	-	NH4/Na	> 40	-	ENV: *** HH: Repr. 2 Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H361f H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07 GHS08	ENV: *** HH: Repr. 2 Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H361f H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07 GHS08
147993-66-6	604-617-1	Butanedioic acid,sulfo-, mono (C16-18 and C18-unsatd. alkyl) ester, ammonium sodium salt		16-18, 18 unsat.	-	NH4/Na	≤ 40	-	ENV: *** HH: Repr. 2 Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H361f H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07 GHS08	ENV: *** HH: Repr. 2 Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H361f H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 38916-42-6 & 81869-18-3)	254-187-0 & 939-704-6	Aspartic acid, N-(3-carboxy-1-oxo-sulfo-propyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts		16-18, 18 unsat.	-	Na	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2**	ENV: H402 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 38916-42-6 & 81869-18-3)	254-187-0 & 939-704-6	Aspartic acid, N-(3-carboxy-1-oxo-sulfo-propyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts		16-18, 18 unsat.	-	Na	≥ 34	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 38916-42-6 & 81869-18-3)	254-187-0 & 939-704-6	Aspartic acid, N-(3-carboxy-1-oxo-sulfo-propyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts		16-18, 18 unsat.	-	Na	<34	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
(former CAS 67893-42-9)	939-654-5	Reaction products of ricinoleic acid with 2-aminoethanol and maleic acid and sodium hydrogensulfite		18	-	Na	100	-	ENV: NC HH: Skin Irrit. 2 Eye Irrit. 2	ENV: NC HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: H402 HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 67893-42-9)	939-654-5	Reaction products of ricinoleic acid with 2-aminoethanol and maleic acid and sodium hydrogensulfite		18	-	Na	> 20	-	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
(former CAS 67893-42-9)	939-654-5	Reaction products of ricinoleic acid with 2-aminoethanol and maleic acid and sodium hydrogensulfite		18	-	Na	10 < C ≤ 20	-	ENV: *** HH: Skin Irrit. 2	ENV: *** HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2	ENV: *** HH: H315	ENV: - HH: Warning	ENV: - HH: GHS07
(former CAS 67893-42-9)	939-654-5	Reaction products of ricinoleic acid with 2-aminoethanol and maleic acid and sodium hydrogensulfite		18	-	Na	≤ 10	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
58353-68-7	261-222-3	disodium (Z)-4-(9-octadecenyl- amino)-4-oxo-2(or 3)-sulphona- tobutyrate		18	-	Na	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 3 HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H402 H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
58353-68-7	261-222-3	disodium (Z)-4-(9-octadecenyl- amino)-4-oxo-2(or 3)-sulphona- tobutyrate		18	-	Na	> 25.5	-	ENV: *** HH: Skin irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Acute Tox (oral). 5 ***** Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: [H303]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
58353-68-7	261-222-3	disodium (Z)-4-(9-octadecenyl- amino)-4-oxo-2(or 3)-sulphona- tobutyrate		18	-	Na	≤ 25.5	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Acute Tox (oral). 5 ***** Eye Irrit. 2**	ENV: *** HH: [H303]***** H319	ENV: - HH: Warning	ENV: - HH: GHS07
97862-28-7	308-072-8	Butanedioic acid, sulfo-, 4-[2-[(2-hydroxyethyl)amino] ethyl] ester, N-C18-unsaturated acyl derivatives, disodium salts		18 unsat	-	Na	100	-	ENV: NC HH: Skin Irrit. 2 Eye Irrit. 2	ENV: NC HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2***** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: H401***** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
Category: Anionics Family: Hydrotopes Typical chemical ingredient: Aromatic sulphonic acids																
98-11-3	202-638-7	Benzenesulfonic acid		-	-	H	100	-	ENV: NC HH: Skin Corr. 1C Eye Dam. 1	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Skin Corr. 1C Eye Dam. 1	ENV: H402 H314	ENV: - HH: Danger	ENV: - HH: GHS05
104-15-4 70788-37-3	203-180-0 274-893-2	Toluene-4-sulphonic acid 2 (or 4)-toluene sulphonic acid		-	-	H	100	-	ENV: NC HH: Skin Corr. 1C Eye Dam. 1	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Skin Corr. 1C Eye Dam. 1	ENV: H402 H314	ENV: - HH: Danger	ENV: - HH: GHS05

* Changes with regard to list from May 2021. C = Change/N = New.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
104-15-4 70788-37-4	203-180-0 274-893-3	Toluene-4-sulphonic acid 2 (or 4)-toluene sulphonic acid		-	-	H	100	Liquid, con- taining H2SO4 < 5 %	ENV: NC HH: Skin Irr. 2 Eye Irrit. 2 STOT SE3	ENV: NC HH: H315 H319 H335	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Skin Irr. 2 Eye Irrit. 2 STOT SE3	ENV: H402 HH: H315 H319 H335	ENV: - HH: Warning	ENV: - HH: GHS07
		p-toluenesulphonic acid		-	-	H	100	Liquid, con- taining H2SO4 > 5 %	ENV: NC HH: Skin Corr. 1B	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: § HH: Skin Corr. 1B	ENV: - HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05
		p-toluenesulphonic acid		-	-	H	≤ 25	Liquid, con- taining H2SO4 > 5 %	ENV: NC HH: Skin Irr. 2 Eye Irrit. 2	ENV: NC HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: § HH: Skin Irr. 2 Eye Irrit. 2	ENV: - HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
98-67-9	202-691-6	4-Hydroxybenzenesulphonic acid with <0.3% 4,4'-sulphon- yldiphenol	C	-	-	H	100	-	ENV: NC HH: Skin Corr. 1C Eye Dam. 1	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Skin Corr. 1C Eye Dam. 1	ENV: H402 HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05
98-67-9	202-691-6	4-Hydroxybenzenesulphonic acid with ≥ 0.3% 4,4'-sulphon- yldiphenol	C	-	-	H		-	ENV: *** HH: Skin Corr. 1C Eye Dam. 1 Repr. 1B	ENV: *** HH: H315 H318 H360	ENV: - HH: Danger	ENV: - HH: GHS05 GHS08	ENV: *** HH: Skin irrit. 2 Eye Dam. 1 Repr. 1B	ENV: *** HH: H315 H318 H360	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07 GHS08
25321-41-9	246-839-8 701-247-3	Xylenesulphonic acid		-	-	H	100	-	ENV: NC HH: Skin Corr. 1C Eye Dam. 1	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Skin Corr. 1C Eye Dam. 1	ENV: H402 HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05
16066-35-6	240-210-1	p-Cumenesulphonic acid		-	-	H	100	-	ENV: NC HH: Skin Corr. 1C Eye Dam. 1	ENV: NC HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Skin Corr. 1C Eye Dam. 1	ENV: H402 HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05
Category: Anionics Family: Hydrotopes salts Typical chemical ingredient: Aromatic sulfonic acid salts																
15763-76-5	239-854-6	Sodium p-cumene sulphonate			-	Na	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
164524-02-1	629-764-9	Potassium 4-isopropylbenzenesulphonate		-	K	100	-		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
680972-33-2	811-484-5	Ammonium 4-isopropylbenzenesulfonate		-	NH4	100	-		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
657-84-1	211-522-5	Sodium toluene-4-sulphonate		-	Na	100	-		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
1300-72-7	215-090-9	Sodium xylenesulphonate		-	Na	100	-		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
30346-73-7	250-140-3	Potassium xylenesulphonate		-	K	100	-		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
26447-10-9	247-710-9 943-024-5	Ammonium xylenesulphonate		-	NH4	100	-		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
-	701-037-1	sodium (xylenes and 4-ethylbenzene)sulphonates		-	Na	100	-		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
-	943-024-5	Ammonium (xylenes and 4-ethylbenzene)sulphonate		-	NH4	100	-		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (dermal) Eye Irrit. 2**	ENV: NC HH: H313 H319"	ENV: - HH: Warning	ENV: - HH: GHS07
Category: Anionics Family: Alkyl Isethionates																
7381-01-3	230-949-8	Sodium 2 sulphonatoethyl laurate	N	12	-	Na	100		ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
156572-81-5, 928663-45-0	700-150-3	Sodium 2 (dodecanoyloxy)propane-1 sulfonate	N	12	-	Na	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
2765259-70-7, 2244880-58-6	827-581-0	Fatty Acids, C8-14, methyl-2-sulfoethyl esters, sodium salts	N	8-14	-	Na	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
61789-32-0	263-052-5	Fatty acids, coco, 2 sulfoethyl esters, sodium salts	N	8-18, 18 unsat.	-	Na	100		ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07

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* For further explanation on hazard statements and pictograms see at the end of the table.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
85408-62-4	287-024-7	Fatty acids, C12-18 and C18-unsatd., 2-sulfoethyl esters, sodium salts	N	8-18, 18 unsat.	-	Na	100		ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
Category: Anionics Family: Acyl Taurates																
4337-75-1	224-388-8	Sodium 2-[methyl(1-oxododecyl) amino]ethanesulphonate	N	12	-	Na	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
1471313-51-5, 61791-42-2	939-529-5	Fatty acid chlorides, C12-18 (even numbered) and C18 unsatd., reaction products with sodium N-methyltaurinate	N	12-18, 18 unsat.	-	Na	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
61791-42-2	263-174-9	Ethanesulfonic acid, 2-(meth-ylamino)-, N-coco acyl derivs., sodium salts	N	12-18, 18 unsat.	-	Na	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
137-20-2	939-538-4	Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate	N	C18 unsat	-	Na	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07

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- § No Recommendation: Instances when no or insufficient information or data is available, so that a recommendation cannot be determined (i.e. no conclusion). This also includes instances when there may be some data, but we are unable to come to harmonized classification (i.e. no classification advice). In both of these cases, it is the responsibility of companies to label according to requirements based on their own data.
- NC No Classification: if data reviewed by the group, including information obtained via read across and weight of evidence, was available as of a given date to show that classification is not needed. In case of absence of data, the assessment is based on expert judgement. All recommendations may be subject to change based on any new data.
- ** No differentiation between cat. 2A and 2B done. Worst case (cat. 2A) to be applied.
- *** Environmental classification of aqueous solutions or preparations containing < 100 % surfactant should be calculated according to the rules laid down in the CLP regulation ((EC) No 1272/2008) based on the classification of the 100% substance.
- **** Highest concentration tested.
- ***** For lower classification limits please refer to CLP default mixture dilution rules (e.g. 10%, 5 %, 3% and/or 1%)
- ***** study pending, no recommendation can be made.

Hazard statements

H228 Flammable solid
 H302 Harmful if swallowed
 H312 Harmful in contact with skin
 H314 Causes severe skin burns and eye damage
 H315 Cause skin irritation
 H318 Causes serious eye damage
 H319 Causes serious eye irritation
 H373 May cause damage to organs through prolonged or repeated exposure
 H400 Very toxic to aquatic life
 H401 Toxic to aquatic life
 H402 Harmful to aquatic life
 H410 Very toxic to aquatic life with long lasting effects
 H411 Toxic to aquatic life with long lasting effects
 H412 Harmful to aquatic life with long lasting effects
 H413 May cause long lasting harmful effects to aquatic life
 NC No classification

Hazard Pictograms

GHS05

Corrosion



GHS07

Exclamation mark



GHS08

Health hazard



GHS09

Environment



GHS02

Flammable



-

No signal word

No pictogram

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
* For further explanation on hazard statements and pictograms see at the end of the table.																
Category: Nonionics Family: Alkanolamides Typical chemical ingredient: Alkanolamides (DEA)																
68155-07-7	931-329-6	Amides, C8-18 (even numbered) and C18-unsat., N, N-bis(hydroxyethyl) <3% free DEA		8-18	-	DEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05
68155-07-7	931-329-6	Amides, C8-18 (even numbered) and C18-unsat., N, N-bis(hydroxyethyl) ≥3% free DEA	N	8-18		DEA	100		ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H411 HH: H315 H318 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS08	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H411 HH: H315 H318 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08
69227-24-3	931-330-1	Amides, C8-18 (even-numbered) and C18(unsat.), N-(hydroxyethyl)	C	8-18	-	MEA	100	-	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: No signal word HH: Danger	ENV: - HH: GHS05	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV:H412 HH: H315 H318	ENV: No signal word HH: Danger	ENV: - HH: GHS05
1335203-30-9	931-596-9	Amides, C8-18 (even-numbered) and C18(unsat.), N-(2-hydroxypropyl) <3% free MIPA	C	8-18	-	IPA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05
1335203-30-9	931-596-9	Amides, C8-18 (even-numbered) and C18(unsat.), N-(2-hydroxypropyl) ≥3% free MIPA	N	8-18	-	IPA	100		ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H411 HH: H315 H318 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS08	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H411 HH: H315 H318 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS08
120-40-1	204-393-1	N,N-bis (2-hydroxyethyl) dodecanamide <3% free DEA		12	-	DEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05
120-40-1	204-393-1	N,N-bis (2-hydroxyethyl) dodecanamide ≥3% free DEA	N	12	-	DEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H411 HH: H315 H318 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS08	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1 Repr. 2	ENV: H411 HH: H315 H318 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS08
90622-77-8	931-338-5	Amides, C12-18 (even-numbered) and C18(unsat.), N-hydroxyethyl	C	12-18 & 18 unsat	-	MEA	100	-	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: No signal word HH: Danger	ENV: - HH: GHS05	ENV: Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H412 HH: H315 H318	ENV: No signal word HH: Danger	ENV: - HH: GHS05
111-57-9	203-883-2	Amides, C16-18 (even-numbered), N-hydroxyethyl	C	16-18	-	MEA	100	-	ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: No signal word HH: -	ENV: - HH: NC	ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: No signal word HH: -	ENV: - HH: NC
68603-38-3	271-653-9	Amides, C16-18 and C18-unsat., N,N-bis(hydroxyethyl) <3% free DEA		16-18 & 18 unsat		DEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Irrit. 2	ENV: H411 HH: H315 H319	ENV: No signal word HH: Warning	ENV: GHS09 HH: GHS07	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Irrit. 2	ENV: H411 HH: H315 H319	ENV: No signal word HH: Warning	ENV: GHS09 HH: GHS07

* For further explanation on hazard statements and pictograms see at the end of the table.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
68603-38-3	271-653-9	Amides, C16-18 and C18-unsat., N,N-bis(hydroxyethyl) ≥3% free DEA	N	16-18 & 18 unsat	-	DEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Irrit. 2 Repr. 2	ENV: H411 HH: H315 H319 H361	ENV: No signal word HH: Warning	ENV: GHS09 HH: GHS07 GHS08	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Irrit. 2 Repr. 2	ENV: H411 HH: H315 H319 H361	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS07 GHS08
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
Category: Nonionics Family: Alkyl polyglucosides Typical chemical ingredient: C4 APG																
Former 31387-97-0	939-389-5	D-Glucopyranose, oligomeric, butyl glycoside.		4	-	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
54549-24-5	259-217-6	D-Glucopyranose, oligomeric, hexyl glycosides		6	-	-	100	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
68515-73-1	500-220-1	D-Glucopyranose, oligomeric, octyldecyl glycosides		8, 10	-	-	100	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Dam. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
157707-87-4	500-394-9	D-Glucopyranose, oligomeric, branched and linear C9-11-alkyl glycosides		9-11	-	-	100	-	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
157707-87-4	500-394-9	D-Glucopyranose, oligomeric, branched and linear C9-11-alkyl glycosides		9-11	-	-	> 50	-	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
157707-87-4	500-394-9	D-Glucopyranose, oligomeric, branched and linear C9-11-alkyl glycosides		9-11	-	-	10 < C ≤ 50	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
157707-87-4	500-394-9	D-Glucopyranose, oligomeric, branched and linear C9-11-alkyl glycosides		9-11	-	-	1 < C ≤ 10	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
110615-47-9	600-975-8	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides		10-16	-	-	100	-	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
110615-47-9	600-975-8	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides		10-16	-	-	> 30	-	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: *** HH: Skin Irrit. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
110615-47-9	600-975-8	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides		10-16	-	-	12 < C ≤ 30*****	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
Not yet assigned	939-698-5	Reaction products of D-Glucose and Alcohols (≤ C12, even numbered) former Reaction products of D-Glucose, n-Butanol and alco- hols C10-12 (even numbered)		4, 10-16	-	-	100	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
Not yet assigned	939-698-5	Reaction products of D-Glucose and Alcohols (≤ C12, even numbered) former Reaction products of D-Glucose, n-Butanol and alco- hols C10-12 (even numbered)		4, 10-16	-	-	> 3	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
Not yet assigned	939-698-5	Reaction products of D-Glucose and Alcohols (≤ C12, even numbered) former Reaction products of D-Glucose, n-Butanol and alcohols C10-12 (even numbered)		4, 10-16	-	-	1 < C ≤ 3	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2**	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
	939-266-6 former 928-176-2	D-Glucose, reaction products with alcohols C16-18 (even numbered) (excess) former Reaction product of D-Glucose and Cetearylalcohol		16-18	-	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
Category: Nonionics Family: Fatty acid-N-methylglucamides Typical chemical ingredient: C8/10-Glucamide																
1591782-62-5	940-284-1	D-Glucitol, 1-deoxy-1-(methyl- amino)-, N-C8-10 acyl derivs.	C	8,10	-	-	100	-	ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1 Acute Tox. 4 (Inh)	ENV: NC HH: H302 H318 H332	ENV: - HH: Danger	ENV: - HH: GHS07 GHS05	ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1 Acute Tox. 4 (Inh)	ENV: NC HH: H302 H318 H332	ENV: - HH: Danger	ENV: - HH: GHS07 GHS05
85261-19-4	617-694-1	D-Glucitol, 1-deoxy-1-[me- thyl(1-oxonyl)amino]-		9	-	-	100	-	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: NC HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05

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* For further explanation on hazard statements and pictograms see at the end of the table.																
287735-50-6	407-290-1	D-Glucitol, 1-deoxy-1-(methyl- amino)-, N-C12-14 acyl derivs.		12,14	-	-	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Eye Dam. I	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
287735-54-0	411-130-6	D-Glucitol, 1-deoxy-1-(methyl- amino)-, N-C16-18 acyl derivs.		16,18	-	-	100	-	ENV: Chronic 2 HH: Eye Dam. I	ENV: H411 HH: H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05	ENV: Acute 2 Chronic 2 HH: Eye Dam. I	ENV: H401 H411 HH: H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05
1591783-13-9	940-422-0	D-Glucitol, 1-deoxy-1-(methyl- amino)-, N-coco acyl derivs.		8,10,12,14, 16,18 and 18u	-	-	100	-	ENV: NC HH: Eye Dam. I	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Acute Tox. 5 (oral) Eye Dam.I	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
1591782-99-8	940-373-5	D-Glucitol, 1-deoxy-1-(meth- ylamino)-, N-(C16-18 and C18-unsat. acyl) derivs.	C	16,18 and 18u	-	-	100	-	ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 Chronic 3 HH: Acute Tox 5 (oral)	ENV: H401 H412 HH: H303	ENV: - HH: -	ENV: - HH: -
Category: Nonionics Family: Fatty acid ethoxylates																
68525-91-7	NA	Fatty acids, C8-18, ethoxylated		8-18	≤ 2.5 EO	-	100	-	ENV: No rec. § HH: NC	ENV: No rec. § HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: Skin Irrit. 3	ENV: No rec. § HH: H316	ENV: - HH: Warning	ENV: - HH: -
68525-91-7	NA	Fatty acids, C8-18, ethoxylated		8-18	12 EO	-	100	-	ENV: No rec. § HH: NC	ENV: No rec. § HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: NC	ENV: No rec. § HH: NC	ENV: - HH: -	ENV: - HH: -
61791-29-5	612-401-3	Fatty acids, coco, ethoxylated		8-16 & 18 unsat.	6 EO	-	100	-	ENV: No rec. § HH: NC	ENV: No rec. § HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: NC	ENV: No rec. § HH: NC	ENV: - HH: -	ENV: - HH: -
68153-64-0 68989-58-2	614-326-1 614-879-9	Fatty acids, tallow, ethoxylated Fatty acids, C16-18 and C18-unsat., ethoxylated		16-18 &18 unsat.	10 EO	-	100	-	ENV: No rec. § HH: NC	ENV: No rec. § HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: No rec. § HH: NC	ENV: No rec. § HH: NC	ENV: - HH: -	ENV: - HH: -
9004-96-0	500-015-7	C18 unsat. acid ethoxylate		18 unsat.	< 2.5 EO		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
9004-96-0	NA	C18 unsat. acid ethoxylate		18 unsat.	>= 2,5 - <6		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
9004-96-0	NA	C18 unsat. acid ethoxylate	C	18 unsat.	>=6 - <8		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute Cat 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
9004-96-0	NA	C18 unsat. acid ethoxylate	C	18 unsat.	>=8 - <10		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
9004-96-0	NA	C18 unsat. acid ethoxylate		18 unsat.	>= 10 EO		100		ENV: Chronic 3 HH: No rec. §	ENV: H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 Chronic 3 HH: No recommendadion	ENV: H402 H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
68989-61-7	NA	Fatty acids, C16-18 ethoxylated		C16-18	>=6 - <=8		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
68989-61-7	NA	Fatty acids, C16-18 ethoxylated		C16-18	>=40		100		ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: No rec. §	ENV: NC HH: No rec. §	ENV: - HH: -	ENV: - HH: -
Category: Nonionics Family: Fatty acid EO glycerol ester Typical chemical ingredient: Fatty acid EO glycerol ester																
68201-46-7 (68606-12-2)	939-459-5	C8-C18 (even numbered) and C18-unsat. Fatty Acid glycerol ester, ethoxylated		8-18 and C18 unsat.	>1 - <6.5 EO	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
68201-46-7 (68606-12-2)	NA	C8-C18 (even numbered) and C18-unsat. Fatty Acid glycerol ester, ethoxylated		8-18 and C18 unsat.	>=6.5 - <=17 EO	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
70914-02-2	NA	C14-C18 (even numbered)Fatty Acid Glycerol ester, ethoxylated with 6.5 to 17 EO		14-18	>=6.5 - <=17 EO	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
N.A	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, C12-C14-alkyl (even numbered), ether with oxybis[propanediol] (4:1)		12-14	10 EO	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
68553-02-6	NA	C12-C18 (even numbered) Fatty Acid glycerol ester, ethoxylated		12-18	>6.5 EO	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: NC	ENV: H402 HH: NC	ENV: - HH: -	ENV: - HH: -
72828-11-6	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, ether with oxybis[propanediol] (4:1), octadecanoate		18	150 EO	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
Category: Nonionics Family: Sorbitan ethoxylated fatty acid ester																
9005-64-5	500-018-3	Lauric acid, monoester with sorbitan, ethoxylated		12	1- 6.5 EO	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
9005-64-5	NA	Lauric acid, monoester with sorbitan, ethoxylated		12	20 EO	-	100	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
(9005-65-6)	701-203-3	Dehydrated sorbitol, C18 (unsaturated) fatty acid esters, ethoxylated		18 unsat.	1-6.5 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
9005-65-6	NA	Oleic acid, monoester with sorbitan, ethoxylated	C	18 unsat.	20 EO		100		ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 Chronic 3 HH: NC	ENV: H402 H412 HH: NC	ENV: - HH: -	ENV: - HH: -

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* For further explanation on hazard statements and pictograms see at the end of the table.												* For further explanation on hazard statements and pictograms see at the end of the table.				
(9005-67-8)	943-428-I	Sorbitan C16-18 (even numbered) fatty acid esters, ethoxylated (1-6.5 moles ethoxylated)		C16-18	I-6.5 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -
Category: Nonionics Family: Fatty acid+ EO+ PO Typical chemical ingredient: No harmonisation																
Category: Nonionics Family: Fatty alcohol+ EO+ PO Typical chemical ingredient: No harmonisation																
Category: Nonionics Family: Fatty alcohol ethoxylate Typical chemical ingredient: See AE specific worksheet																
Category: Nonionics Family: Fatty amines+ EO Typical chemical ingredient: C12 amine ethoxylate																
NA	NA	Amines, lauryl alkyl, ethoxylated		I2	IO EO	-	100	-	ENV: No rec. § HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: No rec. § HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: No rec. § HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: No rec. § HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
61791-14-8 (61791-31-9) (71786-60-2)	500-152-2 (276-014-8)	Amines, coco alkyl, ethoxylated		I2-18	<2,5 EO	-	100	-	ENV: Acute I (M=100) Chronic I (M=I) HH: Acute Tox. 4 (oral) Skin Corr. 1C Repro. Tox cat 2 STOT-RE cat 2	ENV: H400 H410 HH: H302 H314 H361fd H373	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08	ENV: Acute I (M=100) Chronic I (M=I) HH: Acute Tox. 4 (oral) Skin Corr. 1C Repro. Tox cat 2 STOT-RE cat 2	ENV: H400 H410 HH: H302 H314 H361fd H373	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08
61791-14-8	NA	Amines, coco alkyl, ethoxylated		I2-18	≥ 5 - IO EO	-	100	-	ENV: No rec. § HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. I	ENV: No rec. § HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: No rec. § HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. I	ENV: No rec. § HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
61791-14-8	NA	Amines, coco alkyl, ethoxylated		I2-18	≥ IO - 20 EO	-	100	-	ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. I	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
61791-44-4 (1218787-32-6)	263-177-5 (620-540-6)	Amines, tallow alkyl, ethoxylated		I6-18 and C18 unsat.	<2,5 EO	-	100	-	ENV: Acute I (M=10) Chronic I (M=I) HH: Acute Tox. 4 (oral) Skin Corr. 1C	ENV: H400 H410 HH: H302 H314	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute I (M=10) Chronic I (M=I) HH: Acute Tox. 4 (oral) Skin Corr. 1C	ENV: H400 H410 HH: H302 H314	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
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61791-26-2 (68155-40-8)	NA	Amines, tallow alkyl, ethoxylated		16-18 and C18 unsat.	≥ 5 - < 10 EO	-	100	-	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H410 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H410 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
61791-26-2 (68155-40-8)	NA	Amines, tallow alkyl, ethoxylated		16-18 and C18 unsat.	≥ 10 - <15 EO	-	100	-	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H410 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H410 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
61791-26-2 (68155-40-8)	NA	Amines, tallow alkyl, ethoxylated		16-18 and C18 unsat.	15 EO	-	100	-	ENV: Chronic 2 HH: Acute Tox. 4 (oral) Acute Tox. 2 (inhal.) Eye Dam. 1	ENV: H411 HH: H302 H330 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS06 GHS07	ENV: Acute 2 Chronic 2 HH: Acute Tox. 4 (oral) Acute Tox. 2 (inhal.) Eye Dam. 1	ENV: H401 H411 HH: H302 H330 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05 GHS06 GHS07
		Amines, tallow alkyl, ethoxylated		16-18 and C18 unsat.	> 15 - 50 EO		100		ENV: Chronic 2 HH: No rec. §	ENV: H411 HH: No rec. §	ENV: No signal word HH: -	ENV: GHS09 HH: -	ENV: Acute 2 Chronic 2 HH: No rec. §	ENV: H401 H411 HH: No rec. §	ENV: No signal word HH: -	ENV: GHS09 HH: -
26635-93-8 (25307-17-9) (13127-82-7)	500-048-7 (246-807-3) (236-062-2)	Oleylamine ethoxylate		C18 unsat.	<2,5 EO	-	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1B	ENV: H400 H410 HH: H302 H314	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1B	ENV: H400 H410 HH: H302 H314	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05
26635-93-8	500-048-7	Oleylamine ethoxylate		C18 unsat.	3 EO	-	100	-	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1C	ENV: H400 H410 HH: H302 H314	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1C	ENV: H400 H410 HH: H302 H314	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05
26635-93-8	500-048-7	Oleylamine ethoxylate		C18 unsat.	> 3 - 10 EO	-	100	-	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H410 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H410 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05

* For further explanation on hazard statements and pictograms see at the end of the table.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
		Oleylamine ethoxylate		C18 unsat.	12 EO		100		ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H410 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H410 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05
		Oleylamine ethoxylate		C18 unsat.	20 EO		100		ENV: Chronic 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H411 HH: H302 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 2 Chronic 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H401 H411 HH: H302 H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS07 GHS05
26635-92-7		Stearylamine ethoxylate		C18	8 - 15 EO		100		ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: No rec. §	ENV: H400 H410 HH: No rec. §	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: No rec. §	ENV: H400 H410 HH: No rec. §	ENV: Warning HH: -	ENV: GHS09 HH: -
				C18	25 EO		100		ENV: Chronic 2 HH: No rec. §	ENV: H411 HH: No rec. §	ENV: No signal word HH: -	ENV: GHS09 HH: -	ENV: Acute 2 Chronic 2 HH: No rec. §	ENV: H401 H411 HH: No rec. §	ENV: No signal word HH: -	ENV: GHS09 HH: -
70131-58-7	NA	Amines, C20-22-alkyl, ethoxylated		C20-22	34 EO	-	100	-	ENV: No rec. § HH: Acute Tox. 4 (oral) Eye Irritation 2	ENV: No rec. § HH: H302 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: No rec. § HH: Acute Tox. 4 (oral) Eye Irritation 2**	ENV: No rec. § HH: H302 H319	ENV: - HH: Warning	ENV: - HH: GHS07
Category: Cationics Family: Quaternised alkanolamine esters (Esterquats) Typical chemical ingredient: Fatty acids, C16-18 (even numbered), reaction products with triethanolamine, di-Me sulfate-quaternized																
-	931-209-3	Fatty acids, C16-18 (even numbered), reaction products with triethanolamine, di-Me sulfate-quaternized		C16-18	-	-	ENV: 90**** > 80	-	ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2, Chronic 3 HH: NC	ENV: H401, H412 HH: NC	ENV: - HH: -	ENV: - HH: -
157905-74-3	931-203-0	Fatty acids, C16-18 (even numbered) and C18 unsat., reaction products with triethanolamine, di-Me sulfate-quaternized		C16-18 and C18 unsat.	-	-	ENV: 90**** > 80	-	ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2, Chronic 3 HH: Skin Irrit. 3	ENV: H401, H412 HH: H316	ENV: - HH: Warning	ENV: - HH: -
157905-74-3	931-203-0	Fatty acids, C16-18 (even numbered) and C18 unsat., reaction products with triethanolamine, di-Me sulfate-quaternized		C16-18 and C18 unsat.	-	-	30	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
	931-216-1	Fatty acids, C18 unsat., reaction products with triethanolamine, di-Me sulfate-quaternized		C18 unsat.			100		ENV: Chronic 3 HH: Skin Irrit. 2 Eye Irrit. 2	ENV: H412 HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2, Chronic 3 HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: H401, H412 HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
-	931-216-1	Fatty acids, C18 unsat., reaction products with triethanolamine, di-Me sulfate-quaternized		C18 unsat.	-	-	> 28	-	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 2 Eye Irrit. 2**	ENV: *** HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07

* Changes with regard to list from May 2021. C = Change/N = New.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
-	931-216-1	Fatty acids, C18 unsat., reaction products with triethanolamine, di-Me sulfate-quaternized		C18 unsat.	-	-	≤ 28	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
1079184-43-2	620-174-7	Ethanaminium, 2-hydroxy-N-(2-hydroxyethyl)-N,N-dimethyl-, esters with C16-18 and C18-unsat. fatty acids, chlorides		C16-18 and C18 unsat.	-	-	100	-	ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2, Chronic 3 HH: NC	ENV: H401 H412 HH: NC	ENV: - HH: -	ENV: GHS09 HH: -
Category: Cationics Family: Ethoxylated Quaternay Ammonium Compounds (2.5 + EO) Typical chemical ingredient: Quarternary coco amine ethoxylate, 15 EO dimethylsulfate																
68989-03-7		PEG-15 Cocomonium metho-sulphate		12-18	15 EO	Methyl sulphate salt	100	-	ENV: Chronic 2 HH: Eye Dam. I	ENV: H411 HH: H318	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05	ENV: Acute 2, Chronic 2 HH: Eye Dam. I Acute Tox. 5 Skin Irr. 3	ENV: H401 H411 HH: H318 H303 H316	ENV: No signal word HH: Danger	ENV: GHS09 HH: GHS05
Category: Cationics Family: Quaternary Ammonium salts Typical chemical ingredient: Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides																
85409-22-9	939-350-2	Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides	C	12-14	-	Cl	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1B Eye Dam. I	ENV: H400 H410 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1B Eye Dam. I	ENV: H400 H410 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
-	939-253-5	Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides	C	12-16	-	Cl	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1B Eye Dam. I	ENV: H400 H410 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1B Eye Dam. I	ENV: H400 H410 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
-	939-616-8	Quaternary ammonium compounds, C12-C18 (even numbered) alkyltrimethyl chloride	C	12-18	-	Cl	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 3 (oral) Acute Tox. 3 (dermal) Skin Corr. 1C Eye Dam. I	ENV: H400 H410 HH: H301 H311 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS06	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 3 (oral) Acute Tox. 3 (dermal) Skin Corr. 1C Eye Dam. I	ENV: H400 H410 HH: H301 H311 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS06
112-02-7	203-928-6	Hexadecyl trimethyl ammonium chloride (cetrimonium chloride)	C	16	-	Cl	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. I	ENV: H400 H410 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. I	ENV: H400 H410 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
-	939-290-7	Quaternary ammonium compounds, benzyl-C16-C18 (even numbered)-alkyldimethyl, chlorides	C	16-18	-	Cl	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1B Eye Dam. 1	ENV: H400 H410 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Skin Corr. 1B Eye Dam. 1	ENV: H400 H410 HH: H302 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
Category: Amphoterics Family: Alkylbetaines Typical chemical ingredient: C12-14 Alkylbetaines																
66455-29-6	931-700-2	Betaines, C12-14 (even numbered)-alkyldimethyl		12-14	-	-	16 < C ≤ 100	-	ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H412 HH: H318 H315	ENV: No signal word HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H401 H412 HH: H314 H318	ENV: No signal word HH: Danger	ENV: - HH: GHS05
66455-29-6	931-700-2	Betaines, C12-14 (even numbered)-alkyldimethyl		12-14	-	-	1 ≤ C ≤ 16	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: No signal word HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Skin Irrit. 3 Eye Irrit. 2A	ENV: *** HH: H316 H319	ENV: - HH: Warning	ENV: - HH: GHS07
68424-94-2				8-18	-		100	-	ENV: Chronic 3 HH: No rec. §	ENV: H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 Chronic 3 HH: No rec. §	ENV: H401 H412 HH: No rec. §	ENV: - HH: -	ENV: - HH: -
Category: Amphoterics Family: Alkylamidopropyl betaines																
	931-296-8	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts		C8-18			100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (oral) Acute Tox. 5 (Derm.) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-296-8	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts		C8-18	-	-	> 30	-	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (oral) Acute Tox. 5 (Derm.) Eye Dam. 1	ENV: *** HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-296-8	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts		C8-18	-	-	10 < C ≤ 30	-	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-296-8	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts		C8-18	-	-	4 < C ≤ 10	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2B	ENV: *** HH: H320	ENV: - HH: Warning	ENV: - HH: -

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
-	931-296-8	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts		C8-18	-	-	< 4	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
	931-513-6	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C12-18(even numbered) acyl derivs., hydroxides, inner salts		C12-18			100		ENV: Chronic 3 HH: Eye Dam. I	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (Oral) Acute Tox. 5 (Derm.) Eye Dam. I	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-513-6	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C12-18(even numbered) acyl derivs., hydroxides, inner salts		C12-18	-	-	> 30	-	ENV: *** HH: Eye Dam. I	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (Oral) Acute Tox. 5 (Derm.) Eye Dam. I	ENV: *** HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-513-6	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C12-18(even numbered) acyl derivs., hydroxides, inner salts		C12-18	-	-	10 < C ≤ 30	-	ENV: *** HH: Eye Dam. I	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Eye Dam. I	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-513-6	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C12-18(even numbered) acyl derivs., hydroxides, inner salts		C12-18	-	-	4 < C ≤ 10	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2B	ENV: *** HH: H320	ENV: - HH: Warning	ENV: - HH: -
-	931-513-6	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C12-18(even numbered) acyl derivs., hydroxides, inner salts		C12-18	-	-	< 4	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
4292-10-8	224-292-6	(Carboxymethyl)dime- thyl-3-[(1-oxododecyl)amino] propylammonium hydroxide		C12			100		ENV: Chronic 3 HH: Eye Dam. I	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (Oral) Acute Tox. 5 (Derm.) Eye Dam. I	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05

* For further explanation on hazard statements and pictograms see at the end of the table.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
4292-10-8	224-292-6	(Carboxymethyl)dime- thyl-3-[(1-oxododecyl)amino] propylammonium hydroxide		C12	-	-	> 30	-	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (Oral) Acute Tox. 5 (Derm.) Eye Dam. 1	ENV: *** HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
4292-10-8	224-292-6	(Carboxymethyl)dime- thyl-3-[(1-oxododecyl)amino] propylammonium hydroxide		C12	-	-	10 < C ≤ 30	-	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
4292-10-8	224-292-6	(Carboxymethyl)dime- thyl-3-[(1-oxododecyl)amino] propylammonium hydroxide		C12	-	-	4 < C ≤ 10	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2B	ENV: *** HH: H320	ENV: - HH: Warning	ENV: - HH: -
4292-10-8	224-292-6	(Carboxymethyl)dime- thyl-3-[(1-oxododecyl)amino] propylammonium hydroxide		C12	-	-	< 4	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
	931-333-8	1-Propanaminium, 3-ami- no-N-(carboxymethyl)-N,N-dime- thyl-, N-C8-18(even numbered) and C18 unsat. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsat.	-	-	100	-	ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (Oral) Acute Tox. 5 (Derm.) Eye Dam. 1	ENV: H401 H412 HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-333-8	1-Propanaminium, 3-ami- no-N-(carboxymethyl)-N,N-dime- thyl-, N-C8-18(even numbered) and C18 unsat. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsat.	-	-	> 30	-	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Acute Tox. 5 (Oral) Acute Tox. 5 (Derm.) Eye Dam. 1	ENV: *** HH: H303 H313 H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-333-8	1-Propanaminium, 3-ami- no-N-(carboxymethyl)-N,N-dime- thyl-, N-C8-18(even numbered) and C18 unsat. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsat.	-	-	10 < C ≤ 30	-	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Eye Dam. 1	ENV: *** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
-	931-333-8	1-Propanaminium, 3-ami- no-N-(carboxymethyl)-N,N-dime- thyl-, N-C8-18(even numbered) and C18 unsat. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsat.	-	-	4 < C ≤ 10	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2B	ENV: *** HH: H320	ENV: - HH: Warning	ENV: - HH: -
-	931-333-8	1-Propanaminium, 3-ami- no-N-(carboxymethyl)-N,N-dime- thyl-, N-C8-18(even numbered) and C18 unsat. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsat.	-	-	< 4	-	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

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				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*

* For further explanation on hazard statements and pictograms see at the end of the table.

* For further explanation on hazard statements and pictograms see at the end of the table.

Category: Amphoterics		Family: Alkyl amido propyl amine oxide		Typical chemical ingredient: Alkyl amido propyl amine oxide												
866889-72-7	931-324-9	Amides, C12-14 (Even numbered), N-[3-(dimethylamino)propyl], N-oxides		12-14	-	-	100	-	ENV: NC HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. cat.1	ENV: H401 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
-	939-581-9	Amides, C12-18 (Even numbered), N-[3-(dimethylamino)propyl], N-oxides	C	12-18	-	-	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. cat.1	ENV: H400 H411 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
68155-09-9	268-938-5	Amides, coco, N-[3-(dimethylamino)propyl], N-oxides		8-18 and C18 unsat.	-	-	100	-	ENV: NC HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1 STOT Rep. Exp. 2	ENV: NC HH: H302 H315 H318 H373	ENV: - HH: Danger	ENV: - HH: GHS05 GHS08	ENV: Acute 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1 STOT Rep. Exp. 2	ENV: H401 HH: H302 H315 H318 H373	ENV: - HH: Danger	ENV: - HH: GHS05 GHS08
Category: Amphoterics		Family: Amine Oxides		Typical chemical ingredient: Alkyl dimethyl amine oxide												
2605-79-0	220-020-5	N,N-dimethyldodecylamine N-oxide		10	-	-	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H411 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	Pending	Pending	Pending	Pending
308062-28-4	931-292-6	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides		12-14	-	-	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	Pending	Pending	Pending	Pending
-	938-679-9	Amines, C12-16 (even numbered)-alkyldimethyl, N-oxides		12-16	-	-	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	Pending	Pending	Pending	Pending

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table. * For further explanation on hazard statements and pictograms see at the end of the table.																
3332-27-2	222-059-3	N,N-dimethyltetradecylamine N-oxide		14	-	-	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	Pending	Pending	Pending	Pending
-	938-679-9	Amines, C14-16 (even num- bered)-alkyldimethyl, N-oxides		14-16	-	-	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	Pending	Pending	Pending	Pending
68955-55-5	931-341-1	Amines, C12-18(even num- bered)-alkyldimethyl, N-oxides		12-18	-	-	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H411 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	Pending	Pending	Pending	Pending
Category: Amphoterics Family: Amphoacetates																
68608-64-0	271-792-5 (946-565-5)	Acetic acid, chloro-, reaction products with 2-heptyl-4,5-dihy- dro-1H-imidazole-1-ethanol and sodium hydroxide		8	-	Na	100	-	ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 Chronic 3 HH: Acute Tox. 5 (dermal)	ENV: H401 H412 HH: H313	ENV: - HH: -	ENV: - HH: -
68608-66-2	271-794-6	Reaction products of 1H-Imi- dazole-1-ethanol, 4,5-dihydro-, 2-(C11-alkyl) derivs. and sodium hydroxide and chloroacetic acid		12			100		ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 Chronic 3 HH: Eye Irrit. 2A Acute Tox. 5 (oral) Acute Tox. 5 (dermal)	ENV: H401 H412 HH: H319 H303 H313	ENV: - HH: Warning	ENV: - HH: GHS07
68608-66-2	271-794-6	Reaction products of 1H-Imi- dazole-1-ethanol, 4,5-dihydro-, 2-(C11-alkyl) derivs. and sodium hydroxide and chloroacetic acid		12	-	Na	1 ≤ C ≤ 16	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
68608-66-2	271-794-6	Reaction products of 1H-Imi- dazole-1-ethanol, 4,5-dihydro-, 2-(C11-alkyl) derivs. and sodium hydroxide and chloroacetic acid		12	-	Na	> 16	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2A Acute Tox. 5 (oral) Acute Tox. 5 (dermal)	ENV: *** HH: H319 H303 H313	ENV: - HH: Warning	ENV: - HH: GHS07

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation and Propoxylation degree (# EO; # PO)	Form (acid/ salt)	Concentration (%) / resp. specific C&L concentration limits HH	Others	Hazard Class and Category	Hazard Statement*	Signal Word	CLP Pictograms*	Hazard Class and Category	Hazard Statement*	Signal Word	GHS Pictograms*
* For further explanation on hazard statements and pictograms see at the end of the table.																
-	938-645-3	Reaction products of 1H-Imi- dazole-1-ethanol, 4,5-dihydro-, 2-(C11-C13-odd-numbered alkyl) derivs. And sodium hydroxide and chloroacetic acid		12-14	-	Na	100	-	ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 HH: H319	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 Chronic 3 HH: Eye Irrit. 2A Acute Tox. 5 (dermal)	ENV: H401 H412 HH: H319 H313	ENV: - HH: -	ENV: - HH: -
-	938-645-3	Reaction products of 1H-Imi- dazole-1-ethanol, 4,5-dihydro-, 2-(C11-C13-odd-numbered alkyl) derivs. And sodium hydroxide and chloroacetic acid		12-14	-	Na	1 ≤ C ≤ 16	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: *** HH: NC	ENV: *** HH: NC	ENV: - HH: -	ENV: - HH: -
-	938-645-3	Reaction products of 1H-Imi- dazole-1-ethanol, 4,5-dihydro-, 2-(C11-C13-odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid		12-14	-	Na	> 16	-	ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: *** HH: Eye Irrit. 2A Acute Tox. 5 (dermal)	ENV: *** HH: H319 H313	ENV: - HH: Warning	ENV: - HH: GHS07
-	931-291-0	Reaction products of 1H-Imi- dazole-1-ethanol, 4,5-dihydro-, 2-(C7-C17-odd-numbered, C17-unsat. alkyl) derivs. and sodium hydroxide and chloroacetic acid		C8-18	-	Na	100	-	ENV: Chronic 3 HH: Eye Dam. I	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. I Acute Tox. 5 (dermal)	ENV: H401 H412 HH: H318 H313	ENV: - HH: Danger	ENV: - HH: GHS05
68608-63-9	271-790-4	Acetic acid, chloro-, reaction products with 2-heptadecyl-4,5-dihydro-1H-im- idazole-1-ethanol and sodium hydroxide		18	-	Na	> 25	-	ENV: § HH: §	ENV: § HH: §	ENV: - HH: -	ENV: - HH: -	ENV: § HH: §	ENV: § HH: §	ENV: - HH: -	ENV: - HH: -
68608-63-9	271-790-4	Acetic acid, chloro-, reaction products with 2-heptadecyl-4,5-dihydro-1H-im- idazole-1-ethanol and sodium hydroxide		18	-	Na	≤ 25	-	ENV: § HH: NC	ENV: § HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: § HH: NC	ENV: § HH: NC	ENV: - HH: -	ENV: - HH: -

* For further explanation on hazard statements and pictograms see at the end of the table.

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- § No Recommendation: Instances when no or insufficient information or data is available, so that a recommendation cannot be determined (i.e. no conclusion). This also includes instances when there may be some data, but we are unable to come to harmonized classification (i.e. no classification advice). In both of these cases, it is the responsibility of companies to label according to requirements based on their own data.
- NC No Classification: if data reviewed by the group, including information obtained via read across and weight of evidence, was available as of a given date to show that classification is not needed. In case of absence of data, the assessment is based on expert judgement. All recommendations may be subject to change based on any new data.
- ** No differentiation between cat. 2A and 2B done. Worst case (cat. 2A) to be applied.
- *** Environmental classification of aqueous solutions or preparations containing < 100 % surfactant should be calculated according to the rules laid down in the CLP regulation ((EC) No 1272/2008) based on the classification of the 100% substance.
- **** Highest concentration tested.
- ***** For lower classification limits please refer to CLP default mixture dilution rules (e.g. 10%, 5 %, 3% and/or 1%) and/or ATE formular.

Hazard statements

H228 Flammable solid
 H302 Harmful if swallowed
 H312 Harmful in contact with skin
 H314 Causes severe skin burns and eye damage
 H315 Cause skin irritation
 H318 Causes serious eye damage
 H319 Causes serious eye irritation
 H373 May cause damage to organs through prolonged or repeated exposure
 H400 Very toxic to aquatic life
 H401 Toxic to aquatic life
 H402 Harmful to aquatic life
 H410 Very toxic to aquatic life with long lasting effects
 H411 Toxic to aquatic life with long lasting effects
 H412 Harmful to aquatic life with long lasting effects
 H413 May cause long lasting harmful effects to aquatic life
 NC No classification

Hazard Pictograms

GHS05

Corrosion



GHS07

Exclamation mark



GHS08

Health hazard



GHS09

Environment



GHS02

Flammable



-

No word signal

No pictogram

This table is the result of a project of CESIO member-companies exchanging available information about several surfactant groups done in 2023-2025. The intention was an industry-led effort on harmonisation of classification and labelling (C&L) of substances. Experts of CESIO member-companies agreed on the classification and labelling of surfactants shown in the related tables.

The work was done on the basis of studies currently available in member companies. Information was gathered, reviewed and interpreted thoroughly and can be regarded as reliable based on expert judgement. The tables below present the current state of the art and thus may be subject to change based on new data when made available.

Note that the new hazard classes for ED, PBT/vPvB and PMT/vPvM in accordance with commission delegated regulation (EC) 2023/707 amending regulation (EC) no 1272/2008 (EU CLP) have not been addressed in the 2025 version of the guide. ECHA only released the guidance on how to classify substances in accordance with the new hazard classes in Nov 2024. CESIO will include any relevant changes for substances impacted by these new hazard classes in the next version of the guide.

Although the lists have no regulatory character and are not legally binding, European surfactant producers are requested to use the proposed Classification and Labelling recommendations and to update Safety Data Sheets as soon as possible, but not later than 9 months after date of publication on the CESIO website. Amended Safety Data Sheets should be sent to clients. Longer implementation should be avoided, because otherwise surfactant users might be confused due to different information received by their suppliers. In case you have further data, which was not considered during the project supporting or contradicting the conclusions in this table, please contact CESIO.

Although the work was done with highest accuracy CESIO and member companies cannot take over liability for the contents of this table. Producers and importers of surfactants are requested to use this table, but remain individually responsible for compliance with C&L. All public data submitted to ECHA in EU REACH registration dossiers is available by substance on the ECHA website: <https://echa.europa.eu/information-on-chemicals/registered-substances>. Therefore, readers should also consider this data, which is by no means precluded by the CESIO recommendations.

About Cefic:

Cefic, the European Chemical Industry Council, is the forum of large, medium and small chemical companies across Europe, accounting for 1.2 million jobs and 13% of world chemicals production.

On behalf of its members, Cefic's experts share industry insights and trends, and offer views and input to the EU agenda. Cefic also provides members with services, like guidance and trainings on regulatory and technical matters, while also contributing to the advancement of scientific knowledge.