



CESIO RECOMMENDATIONS
for the harmonized classification
and labelling of surfactants

In the mid 1980's, CESIO (Comité Européen des Agents de Surface et de leurs Intermédiaires 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.

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 Chris Gallasch (cga@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 (# EO)	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	Alcohols, C8, ethoxylated (Octan-1-ol, ethoxylated)	C	8	< 2.5 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye irrit. 2B	ENV: H402 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
		C		≥ 2.5 - < 5 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye irrit. 2B	ENV: H402 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
		C		5 EO		100		ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Dam. I	ENV: H402 HH: H303 H318	ENV: - HH: Warning	ENV: - HH: -
		C		> 5 - < 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) Acute Tox. (derm.)§ Eye Dam. I	ENV: H402 HH: H302 H318	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) Acute Tox. (derm.)§ Eye Dam. I	ENV: H402 HH: H302 H318	ENV: - HH: Warning	ENV: - HH: GHS07
		C		> 10 - < 15 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) Acute Tox. (derm.)§	ENV: H402 HH: H302	ENV: - HH: Warning	ENV: - HH: GHS07
		C		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: -
		C		> 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: -

¥ Changes with regard to list from March 2017. 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 (# EO)	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*
68439-45-2 71060-57-6		Alcohols, C6-12, ethoxylated	C	8-10	< 2.5 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
		Alcohols, C8-10, ethoxylated	C		≥ 2.5 - ≤ 4 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
			C		> 4 - ≤ 5 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) Acute Tox. (derm.)§ Eye Dam 1	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 5 - < 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) Acute Tox. (derm.)§ Eye Dam 1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		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) Acute Tox. (derm.)§ Eye Dam 1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 10 - < 15 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. (derm.)§ Eye Dam 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			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 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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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 (# EO)	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*
68439-46-3		Alcohols, C9-11, ethoxylated	C	9-11	< 2.5 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
					≥ 2.5 - ≤ 4 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
					> 4 - ≤ 5 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 5 - ≤ 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. (derm.)§ Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					> 10 - < 15 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. (derm.)§ Eye Dam. 1	ENV: H401 HH: H302 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 2 HH: Eye Dam. 1	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: -

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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 (# EO)	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*
78330-20-8		Alcohols, C9-11-iso-, C10-rich, ethoxylated	C	9-11 branched	< 2.5 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
169107-21-5		Alcohols, C9-11, branched, ethoxylated	C		≥ 2.5 - ≤ 4 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H402 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
			C		> 4 - ≤ 5 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
			C		> 5 - ≤ 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		> 10 - < 15 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
			C		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
			C		> 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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Recommended CAS Number	EC-Number / List-Number	Chemical Name	‡	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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*
160875-66-1		Poly(oxy-1,2-ethanediyl), α-(2-propylheptyl)-ω-hydroxy-	C	10 GUEA	< 2.5 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute*Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
					≥ 2.5 - ≤ 4 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
					> 4 - ≤ 5 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 5 - ≤ 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					> 10 - < 15 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: NC HH: H302 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: 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: -

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				Carbon Chain length	Ethoxylation (# EO)	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*
26183-52-8		Alcohols, C10, ethoxylated (Decan-1-ol, ethoxylated)	C	10	< 2.5 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
					≥ 2.5 - ≤ 4 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
					> 4 - ≤ 5 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 5 - ≤ 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H402 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					> 10 - < 15 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Acute Tox. (derm.)§ 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. (derm.)§ Eye Dam. 1	ENV: H402 HH: H302 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 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 (# EO)	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		Alcohols, C10-12, ethoxylated	C	10-12	< 2.5 EO		100		ENV: Acute 1 (M=1) HH: Eye Irrit. 2	ENV: H400 HH: H319	ENV: Warning HH: Warning	ENV: GHS09 HH: GHS07	ENV: Acute 1 (M=1) HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H400 HH: H303 H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
					≥ 2.5 - ≤ 4 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Acute Tox. 5 (oral) Acute Tox. (derm.)§ Eye Irrit. 2B	ENV: H401 HH: H303 H320	ENV: - HH: Warning	ENV: - HH: -
					> 4 - ≤ 5 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 5 - ≤ 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. (derm.)§ Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					> 10 - < 15 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Acute Tox. (derm.)§ 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. (derm.)§ Eye Dam. 1	ENV: H402 HH: H302 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: -

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‡ Changes with regard to list from March 2017. 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 (# EO)	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*
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 3 HH: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=1) Chronic 3 HH: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H401 H412 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					≥ 5- ≤ 6 EO		100		ENV: Chronic 3 HH: Eye Irrit. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Irrit. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 6 - < 7EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Irrit. 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. (derm.)§ Eye Irrit. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					≥ 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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					≥ 12 - < 15 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 3 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H402 H412 HH: H302 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 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: -	ENV: - HH: -
					> 25 - ≤ 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
	> 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -				

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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 (# EO)	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*
9002-92-0		Dodecan-1-ol, ethoxylated		12	< 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: -
					≥ 2.5 - < 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: Eye Irrit. 2b	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
				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: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
				C	> 6 - < 15 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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 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
				C	> 15 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
				C	> 25 - ≤ 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
160901-19-9 (66455-14-9)		Alcohols, C12-13, branched and linear, ethoxylated (Alcohols, C12-13, ethoxylated)		12-13	< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
					5 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: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
					> 5 - ≤ 6 EO	C	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
					> 6 - < 15 EO	C	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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 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 2 HH: Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 15 - ≤ 20 EO	C	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2B	ENV: H401 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 20 - ≤ 25 EO	C	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - ≤ 40 EO	C	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
> 40 EO		100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
68439-50-9		Alcohols, C12-14, ethoxylated		12-14	< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
					5 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: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
				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: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
				C	> 6 - < 15 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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 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 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. 2B	ENV: H401 HH: H320	ENV: - HH: Warning	ENV: - HH: -
				C	> 20 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
				C	> 25 - ≤ 40 EO		100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
				> 40 EO		100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	

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‡ Changes with regard to list from March 2017. 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 (# EO)	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*
106232-83-1 (68131-39-5)		Alcohols, C12-15-branched and linear, ethoxylated (Alcohols, C12-15, ethoxylated)		12-15	< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: -	ENV: GHS09 HH: -
					5 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: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
					> 5 - ≤ 6 EO	C	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
					> 6 - < 15 EO	C	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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 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 2 HH: Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 15 - ≤ 20 EO	C	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2B	ENV: H401 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 20 - ≤ 25 EO	C	100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - ≤ 40 EO	C	100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
> 40 EO		100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=1) Chronic 3 HH: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
					5 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: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
					> 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: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 6 - < 15 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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 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 - ≤ 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. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 20 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - ≤ 40 EO		100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
> 40 EO		100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
68213-23-0		Alcohols, C12-18, ethoxylated		12-18	< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
					5 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: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
					> 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: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 6 - < 15 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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 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 - ≤ 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. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 20 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - ≤ 40 EO		100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
> 40 EO		100		ENV: NV HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
69011-36-5 9043-30-5		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)	‡	13 branched	< 2.5 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: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H401 H412 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					≥ 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: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 6 - < 7 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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					≥ 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. (derm.)§ Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
					> 10 - < 15 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. (derm.)§ Eye Dam. 1	ENV: H402 HH: H302 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 - ≤ 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. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 20 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Eye Irrit. 2B	ENV: NC HH: H320	ENV: - HH: Warning	ENV: - HH: -
> 25 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
157627-86-6		Alcohols, C13-15-branched and linear, ethoxylated		13-15	< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
					5 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: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
					> 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: Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05
					> 6 - < 15 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. (derm.) Eye Dam. 1	ENV: H401 H412 HH: H302 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 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - ≤ 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
27306-79-2		Tetradecan-1-ol, ethoxylated		14	< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
				C	≥ 5 - < 6 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: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
				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: Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS05
				C	≥ 7 - < 15 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. (derm.) Eye Dam. 1	ENV: H401 H412 HH: H302 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
				C	> 15 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
				C	> 25 - ≤ 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
68951-67-7		Alcohols, C14-15, ethoxylated		14-15	< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
					≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
				C	≥ 5 - < 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: Eye Dam. 1	ENV: H400 H412 HH: 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. (derm.)§ Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05
				C	≥ 8 - < 15 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. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 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
				C	> 15 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
				C	> 25 - ≤ 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
	> 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
120944-68-5		Alcohols, C14-15-branched and linear, ethoxylated		< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
				≥ 2.5 - < 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: Eye Irrit. 2B	ENV: H400 H412 HH: H320	ENV: Warning HH: Warning	ENV: GHS09 HH: -
				≥ 5 - < 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: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05
				≥ 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. (derm.) Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05
				≥ 8 - < 15 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. (derm.) Eye Dam. 1	ENV: H401 H412 HH: H302 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 - ≤ 25 EO			100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
				> 25 - ≤ 40 EO			100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
> 40 EO			100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
68154-96-1		Alcohols C14-18, ethoxylated		14-18	< 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: NC	ENV: H400 H412 HH: NC	ENV: Warning HH: -	ENV: GHS09 HH: -
				C	≥ 2.5 - ≤ 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: Acute Tox. (derm.)§	ENV: H400 H412 HH: §	ENV: Warning HH: -	ENV: GHS09 HH: -
				C	> 5 EO - < 6 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: GSH05	ENV: Acute 1 (M=1) Chronic 3 HH: Eye Dam. 1	ENV: H400 H412 HH: H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GSH05
				C	≥ 6 - < 7 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS07	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1	ENV: H401 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GSH05
				C	≥ 7 - < 15 EO		100		ENV: Chronic 3 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GSH05	ENV: Acute 2 Chronic 3 HH: Acute Tox. 4 (oral) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 H412 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GSH05
				C	15 EO		100		ENV: NC HH: Eye Irrit. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 3 HH: Eye Irrit. 1	ENV: H402 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
				C	> 15 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - ≤ 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
	> 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
52609-19-5		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 H412 HH: NC	ENV: - HH: -	ENV: - HH: -
68439-49-6		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 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: Acute Tox. (derm.)§	ENV: H401 H411 HH: §	ENV: - HH: -	ENV: GHS09 HH: -
					> 5 - ≤ 7 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: Acute Tox. (derm.) §	ENV: H400 H412 HH: §	ENV: Warning HH: -	ENV: GHS09 HH: -
					> 7 - ≤ 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GSH05
					≥ 10 - < 15 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GSH05	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GSH05
					≥ 15 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2B	ENV: H401 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - < 30 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					≥ 30- ≤ 50 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
68920-66-1		Alcohols, C16-18 and C18-unsatd., ethoxylated		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
					> 5 - ≤ 7 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2 Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H412 H315 H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2 Acute Tox. 4 (oral) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H400 H412 H315 H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05
					> 7- < 10 EO		100		ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2 Acute Tox. 4 (oral) Eye Dam. 1	ENV: H400 H412 H315 H302 H318	ENV: Warning HH: Warning Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 1 (M=1) Chronic 3 HH: Skin Irrit. 2 Acute Tox. 4 (oral) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H400 H412 H315 H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GHS05
					≥ 10 - < 15 EO		100		ENV: Chronic 3 HH: Skin Irrit. 2 Acute Tox. 4 (oral) Eye Dam. 1	ENV: H412 H315 H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GHS05	ENV: Acute 2 Chronic 3 HH: Skin Irrit. 2 Acute Tox. 4 (oral) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 H412 H315 H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GHS05
					≥ 15 - ≤ 20 EO		100		ENV: Chronic 3 HH: Eye Irrit. 2	ENV: H412 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 Chronic 3 HH: Eye Irrit. 2B	ENV: H401 H412 H320	ENV: - HH: Warning	ENV: - HH: -
					> 20 - ≤ 25		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 3 HH: Eye Irrit. 2B	ENV: H402 H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - ≤ 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
> 40 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -					

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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 (# EO)	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*
106232-82-0		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: -
				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: Acute Tox. (derm.)§	ENV: H401 H411 HH: §	ENV: - HH: Warning	ENV: GHS09 HH: -
				C	> 5 - ≤ 7 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: Acute Tox. (derm.)§	ENV: H400 H412 HH: §	ENV: Warning HH: Warning	ENV: GHS09 HH: -
				C	> 7 - ≤ 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GSH05
				C	≥ 10 - < 15 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GSH05	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GSH05
				C	15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GSH05	ENV: Acute 2 HH: Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GSH05
				C	> 15 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2B	ENV: H401 HH: H320	ENV: - HH: Warning	ENV: - HH: -
				C	> 25 - < 30 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
				C	≥ 30 - ≤ 50 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
				> 50 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	

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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 (# EO)	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*
9005-00-9		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: -
				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: Acute Tox. (derm.)§	ENV: H401 H411 HH: §	ENV: - HH: -	ENV: GHS09 HH: -
				C	> 5 - ≤ 7 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: Acute Tox. (derm.)§	ENV: H400 H412 HH: §	ENV: - HH: -	ENV: GHS09 HH: -
				C	> 7 - ≤ 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) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H400 H412 HH: H302 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS07 GSH05
				C	≥ 10 - < 15 EO		100		ENV: NC HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: NC HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GSH05	ENV: Acute 2 HH: Acute Tox. 4 (oral) Acute Tox. (derm.)§ Eye Dam. 1	ENV: H401 HH: H302 H318	ENV: - HH: Danger	ENV: - HH: GHS07 GSH05
					15 EO		100		ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GSH05	ENV: Acute 2 HH: Eye Dam. 1	ENV: H401 HH: H318	ENV: - HH: Danger	ENV: - HH: GSH05
				C	≥ 15 - ≤ 25 EO		100		ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: Acute 2 HH: Eye Irrit. 2B	ENV: H401 HH: H320	ENV: - HH: Warning	ENV: - HH: -
					> 25 - < 30 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					≥ 30 - ≤ 50 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
	> 50 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -				

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






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- § §: 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.

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

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 (# EO)	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
* 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: Alkyl ethersulfate salts															
Not yet assigned	939-523-2	Alkyl ether sulfate C8-10 with EO, Na salt	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 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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
				<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
				> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
				> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -
6E12: E398891-29-2	500-233-2	Alkyl ether sulfate C8-10 with EO, NH4 salt	8-10	<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: GH07	ENV: * HH: Eye Irrit. 2**	ENV: * HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
				<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
				> 10 - ≤ 50 EO	NH4	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
				> 50 EO	NH4	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -

¥ Changes with regard to list from March 2017. C = Change/N = New.

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 (# EO)	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
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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
				<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
				> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
				> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
				<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
				> 10 - ≤ 50 EO	NH4	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
				> 50 EO	NH4	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
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. 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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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. 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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -

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‡ Changes with regard to list from March 2017. 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 (# EO)	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*
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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Mg	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Mg	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -
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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: H412 HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: §	ENV: H401 H412 HH: §	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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
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: *** 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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: H412 HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: §	ENV: H401 H412 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: H412 HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: §	ENV: H401 H412 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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		12-14	<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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -
125301-88-4	603-047-0	Alkyl ether sulfate C12-14 with EO, NH4 salt		12-14	<2.5 EO	NH4	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	NH4	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	NH4	5 ≤ C < 10		ENV: *** HH: Eye Irrit. 2	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	NH4	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	NH4	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
	> 50 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -				
160104-51-8	605-198-8	Alkyl ether sulfate C12-14 with EO, Mg salt		12-14	<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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<2.5 EO	Mg	< 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				ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO				ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
	> 50 EO				ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
174450-50-1	605-725-1	Alcohols, C12-14 (even numbered), ethoxylated, sulfates, triisopropanolamine salts		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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 HH: §	ENV: H401 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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 (# EO)	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*
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: GH07	ENV: *** HH> Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: §	ENV: H412 HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: §	ENV: H401 H412 HH: §	ENV: - HH: -	ENV: - HH: -
					> 10 - ≤ 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Aqua. Acute 3 HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -
					> 50 EO	Na	100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -
162063-19-6	500-675-6	Alcohols, C13-15, branched and linear, ethoxylated, sulfates, sodium salts	C	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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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: -
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. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: -	ENV: -	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: -	ENV: -
					<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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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 (# EO)	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*
157627-95-7	500-345-1	Alkyl ether sulfate C16-18, 18 unsat. with EO, sodium salt	C	16-18	<2.5 EO	Na	100		ENV: Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: -***	ENV: -***	ENV: Aqua. Acute 2 Aqua. Chronic 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: -***	ENV: -***
					<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: GH07	ENV: *** HH: Eye Irrit. 2**	ENV: *** HH: H319	ENV: - HH: Warning	ENV: - HH: GH07
					<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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- § §: 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

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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 (# EO)	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	C	8	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 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: -

* Changes with regard to list from March 2017. 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 (# EO)	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*
126-92-1	204-812-8	Sulfuric acid, mono-(2-ethylhexyl) ester, linear, sodium salts	C	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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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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*
85338-42-7	286-718-7	Sulfuric acid, mono-C8-10-alkyl esters, sodium salts	N	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 (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 (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 (oral)***** Skin Irrit. 2 Eye Dam. 1	ENV*** HH: [H302]***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV*** HH: Acute Tox (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: - H315 H319	ENV: - HH: Danger	ENV: - HH: GHS07	ENV*** HH: Acute Tox (oral)***** Skin Irrit. 2 Eye Irrit. 2**	ENV*** HH: - 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: -

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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 (# EO)	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*
96690-74-3	306-271-4	Sulfuric acid, mono-C8-14-alkyl esters, ammonium salts, compds. with triethanolamine	C	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 HH: 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 HH: H302 H313 H315 [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: - 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 (# EO)	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*
85665-45-8	288-134-8	Sulfuric acid, mono-C8-14-alkyl esters, even numbered, linear, triethanolamine salts	C	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 HH: 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 HH: 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 (# EO)	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*
90583-10-1	292-208-5	Sulfuric acid, mono-C8-14-alkyl esters, even numbered, linear, ammonium salts	C	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: -

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

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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 (# EO)	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*
85586-38-5	287-840-3	Sulfuric acid, mono-C8-18, magnesium and triethanolamine salts	C	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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‡ Changes with regard to list from March 2017. 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 (# E0)	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*
1072-15-7	214-002-6	Sulfuric acid, mono-C9-alkyl esters, sodium salts	C	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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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥	Typical specification					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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*
142-87-0	205-568-5	Sulfuric acid, mono-decyl ester, linear, sodium salt	C	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: -

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¥ Changes with regard to list from March 2017. 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 (# E0)	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*
85049-86-1	285-260-5	Sulfuric acid, mono-C10-C12-alkyl esters, even numbered, linear, sodium salts	C	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: -

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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 (# EO)	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*
151-21-3	205-788-1	Sodium dodecyl sulphate	C	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 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 (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: -

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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 (# EO)	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*
2044-56-6	218-058-2	Sulfuric acid, mono-C12-alkyl esters, even numbered, linear, lithium salts	C	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 HH: 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 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
						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: -

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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 (# EO)	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*
94200-74-5	303-553-9	Sodium 2- butyloctyl sulfate	C	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 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 ***** Skin Irrit. 2 Eye Dam. 1	ENV*** HH: - H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV*** HH: Acute Tox (oral)***** Skin Irrit. 2 Eye Dam. 1	ENV*** HH: [H302]***** H315 H318	ENV: - HH: Warning	ENV: - HH: 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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Recommended CAS Number	EC-Number / List-Number	Chemical Name	‡	Typical specification				CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation (# EO)	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*
1231880-35-5	931-974-3	Sulfuric acid, mono (C12-13-branched and linear alkyl) esters, sodium salts	C	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 (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: -

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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 (# EO)	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*
85586-07-8	287-809-4	Sulfuric acid, C12-14-alkyl(even numbered) esters, sodium salts	C	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: -

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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 (# EO)	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*
90583-18-9	292-216-9	Sulfuric acid, mono-C12-14-alkyl esters, even numbered, linear, triethanolamine salts	C	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 HH: 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 HH: 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 (# EO)	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*
90583-11-2	292-209-0	Sulfuric acid, C12-14-alkyl(even numbered) esters, ammonium salts	C	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: -

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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 (# EO)	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*
1268005-68-0	waiting for EC number	Sulfuric acid, mono-C12-14-alkyl esters, even numbered, linear, potassium salts	C	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 HH: 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 HH: 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: -

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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 (# EO)	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*
73296-89-6	277-362-3	Sulfuric acid, C12-16-alkyl(even numbered) esters, sodium salts	C	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: -

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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 (# EO)	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*
68955-19-1	273-257-1	Sulfuric acid, C12-18-alkyl(even numbered) esters, sodium salts	C	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.

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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 (# EO)	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*
68955-20-4	273-258-7	Sulfuric acid, mono-C16-18-alkyl esters, even numbered, linear, sodium salts	C	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: -
1394155-71-5	-	Sulfuric acid, mono-(C16-18 and 18-unsatd.alkyl) esters, even numbered, linear, sodium salts	C	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.

- § §: 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.
- ***** 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

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥						CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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 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	> 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: H305***** H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
68439-57-6	931-534-0	Sulfonic acids, C14-16 (even numbered) -alkane hydroxy and C14-16 (even numbered) -alkene, sodium salts	C	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 H412 HH: 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 H412 HH: H302 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
Category: Anionics Family: CaDBBS Typical chemical ingredient: Linear Calcium Salts of Alkyl benzene sulfonic acid																
26264-06-2 84989-14-0 90194-36-8 90194-36-8	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 Irr. 2	ENV: H401 H412 HH: H303 H315 H318	ENV: - HH: Danger	ENV: - HH: GHS07
Typical chemical ingredient: Branched Calcium Salts of Alkyl benzene sulfonic acid																
68953-96-8	273-234-6	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts		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: - HH: Danger	ENV: GHS09 HH: GHS07 GHS05	ENV: Acute 3 Chronic 2 HH: Acute Tox. 4 (derm.) Skin Irrit. 2 Eye Dam. 1	ENV: H402 H411 HH: H312 H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥					CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation (# EO)	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: 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, 90194-42-6	939-464-2	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	C	10-13	-	TEA	100	-	ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	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: § HH: Skin Irrit. 2 Eye Irrit. 2	ENV: § HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
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: §	ENV: 412 HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 Chronic 3 HH: §	ENV: H401 H412 HH: §	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.		11-13	-	H	100	-	ENV: Chronic 2 HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. 1	ENV: H411 HH: H302 H314 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Chronic 2 HH: Acute Tox. 4 (oral) Skin Corr. 1C Eye Dam. 1	ENV: H411 HH: H302 H314 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07
Typical chemical ingredient: Branched alkyl benzene sulphonic acid, sodium salts																
68608-89-9	271-808-0	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., sodium salts		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 HH: 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

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥					CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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

* 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: 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
68412-55-5	NA	Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-omega-(tridecyloxy)-, branched	C	13	7 EO	H	100	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: § HH: Skin Irrit. 3 Eye Dam. 1	ENV: § 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), alpha-(carboxymethyl)-omega-hydroxy-, C12-14-alkyl (even numbered) ethers		12-14	≥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
220622-96-8	NA	Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-omega-hydroxy-, C12-14-alkyl (even numbered) ethers		12-14	≥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
119147-75-0	NA	Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-omega-hydroxy-, C14-15-alkyl ethers	N	14-15 b&l	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
		Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-omega-hydroxy-, C14-15-branched and linear-alkyl ethers														
227310-69-2	NA	Poly(oxy-1,2-ethanediyl), alpha-(carboxymethyl)-omega-hydroxy-, C16-18(even numbered) and C18-unsatd. alkyl ethers		16-18	NLP	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

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥					CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation (# EO)	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*
227310-69-2	NA	Poly(oxy-1,2-ethanediyl), α -(carboxymethyl)- ω -hydroxy-, C16-18(even numbered) and C18-unsatd. alkyl ethers		16-18	$\geq 2.5-10$ 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
57635-48-0	NA	Poly(oxy-1,2-ethanediyl), α -(carboxymethyl)- ω -9-octadecenyloxy).		18	$\geq 2.5-10$ 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
* For further explanation on hazard statements and pictograms see at the end of the table.																
Typical chemical ingredient: Sodium alkylether carboxylate																
33939-64-9	NA	Poly(oxy-1,2-ethanediyl), α -(carboxymethyl)- ω -dodecyloxy)-, sodium salt.		12	$\geq 2.5-5$ EO	Na	≤ 20	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Eye Irrit. 2**	ENV: H401 HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07
70632-06-3	NA	Polyethylene glycol carboxymethyl C12-14-alkyl (even numbered) ether sodium salts.		12-14	$\geq 2.5-5$ 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-methyl-ethyl 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: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
107-66-4	203-509-8	Phosphoric acid, dibutyl ester		4	-	-	100	-	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
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: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
12788-93-1	235-826-2	Phosphoric acid, butyl ester		4	-	-	100	-	ENV: § HH: Skin Corr. 1B	ENV: § HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: § HH: pending	ENV: § 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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
12789-46-7	235-827-8	Phosphoric acid, pentyl ester		5	-	-	100	-	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
298-07-7	206-056-4	bis(2-ethylhexyl) hydrogen phosphate		di-C8	-	-	95****	-	ENV: § HH: Skin Corr. 1B	ENV: § HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: § HH: pending	ENV: § 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: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending

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				Carbon Chain length	Ethoxylation (# EO)	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*
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: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: § HH: pending	ENV: § 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: NC HH: Eye Dam. 1 Skin Irrit. 2	ENV: H411 HH: H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 2 Chronic 2 HH: pending	ENV: H401 H411 HH: pending	ENV: - 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
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: § HH: pending	ENV: § 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: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending

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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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § HH: pending	ENV: - HH: pending	ENV: - HH: pending
		Decylphosphoric acid, potassium salt	10	-	K	45****	-	ENV: NC HH: Eye Dam. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: § HH: Acute Tox. 5 (oral) Eye Dam. 1	ENV: § 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: § HH: pending	ENV: § 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. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: § HH: pending	ENV: § 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. 1	ENV: NC HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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: § HH: pending	ENV: § 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. 1	ENV: H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	ENV: Acute 2 Chronic 3 HH: Skin irrit. 2 Eye Dam. 1	ENV: H401 H412 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07
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

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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	N	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: cute 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	N	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	N	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	N	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-isotridecyl-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
73038-25-2	NA	Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	C	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-isotridecyl-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-tridecyl-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-tridecyl-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

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				Carbon Chain length	Ethoxylation (# EO)	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*
68511-37-5	NA	Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, mono-C12-14-alkyl ethers, phosphates	N	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	N	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	N	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	N	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
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

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				Carbon Chain length	Ethoxylation (# EO)	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*
39464-69-2	NA	Poly(oxy-1,2-ethanediyl), α -(9Z)-9-octadecen-1-yl- ω -hydroxy-, phosphate	C	18	3-4 EO	H	100	-	ENV: § HH: Skin Irrit. 2 Eye Dam. 1	ENV: § HH: H315 H318	ENV: - 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	C	18	3-4 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	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 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
39464-69-2	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	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
39464-69-2	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
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	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
Typical chemical ingredient: Linear Alkyl EO phosphate esters, K salt																
68070-99-5	NA	Poly(oxy-1,2-ethanediyl), α -decyl- ω -hydroxy-, phosphate, potassium salt		10	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
Typical chemical ingredient: Linear Alkyl EO phosphate esters, TEA salt																
215125-05-6	NA	Ethanol, 2,2',2''-nitrilotris-, compd. with α -decyl- ω -hydroxypoly(oxy-1,2-ethanediyl) phosphate		10	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

* 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	¥					CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation (# EO)	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*
Typical chemical ingredient: Linear Alkyl EO phosphate esters, Na salt																
-	NA	Poly(oxy-1,2-ethanediyl), α-phosphono-ω-hydroxy-, C12-14-alkyl ethers, sodium salt		12-14	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
Typical chemical ingredient: Linear Alkyl EO phosphate esters, Na salt																
68954-88-1	NA	Poly(oxy-1,2-ethanediyl), α-phosphono-ω-hydroxy-, C12-20-alkyl ethers, sodium salt		12-20	8-10EO	Na	100	-	ENV: Acute 1 (M=1) Chronic 2 HH: §	ENV: H400 H411 HH: §	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=1) Chronic 2 HH: §	ENV: H400 H411 HH: §	ENV: Warning HH: -	ENV: GHS09 HH: -
Typical chemical ingredient: Linear Alkyl EO phosphate esters, Na salt																
119415-05-3	NA	Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, mono-C16-20-alkyl ethers, phosphates, sodium salt		16-20	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
Category: Anionics Family: Nonylphenol EO phosphat esters Typical chemical ingredient: Nonylphenol, branched, EO phosphate esters																
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
Typical chemical ingredient: Nonylphenol, branched, EO phosphate esters																
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
Typical chemical ingredient: Nonylphenol, branched, EO phosphate esters																
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
Typical chemical ingredient: Nonylphenol, branched, EO phosphate esters, Na salt																
37340-60-6	NA	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, phosphates		Nonylphenol	7 EO	Na	100	-	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: Fatty acid methyl ester Sulphonate																
4016-21-1	223-673-4	Sodium 1-methyl 2-sulphona-tododecanoate		12	-	Na	100	-	ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	pending	pending	pending	pending
85681-86-3	288-224-7	Fatty acids, C12-18, α-sulfo, 1-Me esters, sodium salts		12-18	-	Na	100	-	ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	pending	pending	pending	pending
85186-99-8	286-085-7	Fatty acids, C12-18, α-sulfo, disodium salts		12-18	-	di-Na	100	-	ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	pending	pending	pending	pending

* 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	¥						CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation (# EO)	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: 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-diisobutoxycarbonylethanesulphonate	N	C4 branched	-	Na	100	-	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	
23386-52-9	245-629-3	Sodium 1,4-dicyclohexylsulphonatosuccinate	N	C6 cyclo	-	Na	100	-	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	
2373-38-8	219-147-9	Butanedioic acid, sulfo-, 1,4-bis(1,3-dimethylbutyl) ester, sodium salt	C	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 (derm.) 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, sodium salt; Docusate, sodium salt	C	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	ENV: Acute 3 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H402 HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05 GHS07	
29857-13-4	249-894-6	Butanedioic acid, sulfo-, 1,4-diisodecyl ester, sodium salt		10 branched	-	Na	100	-	ENV: Acute 1 (M=1) HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	HH: Acute 1 (M=1) HH: Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 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	C	12	-	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 25882-44-4)	(939-648-2)	Butanedioic acid, 2(or 3)-sulfo-, 4-[2-[(1-oxododecyl)amino]ethyl] ester, disodium salt	C	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	C	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	C	12	-	Na	≤ 10	-	ENV*** HH: NC	ENV*** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV*** HH: NC	ENV*** HH: NC	ENV: - HH: -	ENV: - HH: -	

¥ Changes with regard to list from March 2017. C = Change/N = New.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥						CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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*
90268-37-4	939-638-8	Butanedioic acid, sulfo-, 4-C12-14 (even numbered) alkyl esters, disodium salts	C	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	C	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	C	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	C	12-14	-	Na	≤ 5	-	ENV*** HH: Acute Tox. (oral)*****	ENV*** HH: [H302]*****	ENV: - HH: Warning *****	ENV: - HH: GHS07*****	ENV*** HH: Acute Tox. (oral)*****	ENV*** HH: [H302]*****	ENV: - HH: Warning *****	ENV: - HH: GHS07*****
90268-36-3	290-836-4	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts	C	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
(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	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 Irr. 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	C	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 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	-	ENV*** HH: NC	ENV*** HH: NC	ENV: - HH: -	ENV: - HH: -	ENV*** HH: Skin Irrit. 2	ENV*** HH: H315	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	¥						CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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*
55184-72-0 (former 2673-22-5)	259-515-6 (former 220-219-7)	Butanedioic acid, sulfo-, 1,4-diisotridecyl ester, sodium salt	C	13 branched	-	Na	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 2 Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H401 H411 HH: 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	C	16-18, 18 unsat.	-	Na	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 HH: Repr. 1B Acute Tox. 5 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H401 HH: H360 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	C	16-18, 18 unsat.	-	Na	> 25.5	-	ENV*** HH: Skin irrit. 2 Eye Dam. 1	ENV*** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV*** HH: Repr. 1B Acute Tox. (oral)***** Skin Irrit. 2 Eye Dam. 1	ENV*** HH: H360 [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	C	16-18, 18 unsat.	-	Na	≤ 25.5	-	ENV*** HH: Eye Irrit. 2	ENV*** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV*** HH: Repr. 1B Acute Tox. (oral)***** Eye Irrit. 2	ENV*** HH: H360 [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		16-18, 18 unsat.	-	NH4/Na	100	-	ENV: Acute 1 (M=1) HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) HH: Skin Irrit. 2 Eye Dam. 1	ENV: H400 HH: H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07
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: 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 GHS07
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: 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 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	C	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	C	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

* 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	¥						CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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 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	C	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	C	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	C	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
(former CAS 67893-42-9)	939-654-5	Reaction products of ricinoleic acid with 2-aminoethanol and maleic acid and sodium hydrogensulfite	C	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	C	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-octadecylamino)-4-oxo-2(or 3)-sulphonatobutyrate	C	18	-	Na	100	-	ENV: NC HH: Skin irrit. 2 Eye Dam. 1	ENV: NC HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	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
58353-68-7	261-222-3	disodium (Z)-4-(9-octadecylamino)-4-oxo-2(or 3)-sulphonatobutyrate	C	18	-	Na	> 25.5	-	ENV*** HH: Skin irrit. 2 Eye Dam. 1	ENV*** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV*** HH: Acute Tox. (oral)***** 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-octadecylamino)-4-oxo-2(or 3)-sulphonatobutyrate	C	18	-	Na	≤ 25.5	-	ENV*** HH: Eye Irrit. 2	ENV*** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV*** HH: Acute Tox. (oral)***** 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	C	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 Irr. 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 HH: H314	ENV: - HH: Danger	ENV: - HH: GHS05	
98-11-3	202-638-7	Benzenesulfonic acid	-	-	H	1 ≤ C ≤ 20	-	ENV*** HH: Skin Irr. 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 GHS07	

* 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 March 2017. C = Change/N = New.

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Recommended CAS Number	EC-Number / List-Number	Chemical Name	¥						CESIO CLP Classification				CESIO UN-GHS Classification			
				Carbon Chain length	Ethoxylation (# EO)	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*
104-15-4 70788-37-3	203-180-0 274-893-2	Toluene-4-sulphonic acid 2 (or 4)-toluene sulphonic acid	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
104-15-4 70788-37-4	203-180-0 274-893-3	Toluene-4-sulphonic acid 2 (or 4)-toluene sulphonic acid	C			H	>= 1 - < 20	-	ENV: *** HH: Skin Irr. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: *** HH: Skin Irr. 2 Eye Dam. 1	ENV: *** HH: H315 H318	ENV: - HH: Danger	ENV: - HH: GHS05
		p-toluenesulphonic acid	N			H	100	Liquid, containing 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	N			H	≤ 25	Liquid, containing 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 Dam. 1	ENV: - HH: H315 H319	ENV: - HH: Warning	ENV: - HH: GHS07
98-67-9	202-691-6	4-Hydroxybenzenesulphonic 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	
98-67-9	202-691-6	4-Hydroxybenzenesulphonic acid	-	-	H	1 ≤ C ≤ 20	-	ENV*** HH: Skin Irr. 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 GHS07	
25321-41-9	246-839-8 701-247-3	Xylenesulphonic acid	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
25321-41-9	246-839-8 701-247-3	Xylenesulphonic acid	C	-	-	H	1 ≤ C ≤ 20	-	ENV*** HH: Skin Irr. 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
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	
16066-35-6	240-210-1	p-Cumenesulphonic acid	-	-	H	1 ≤ C ≤ 20	-	ENV*** HH: Skin Irr. 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 GHS07	
Category: Anionics Family: Hydrotopes salts Typical chemical ingredient: Aromatic sulfonic acid salts																
15763-76-5	239-854-6	Sodium p-cumene sulphonate	C	-	Na	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07	
164524-02-1	629-764-9	Potassium 4-isopropylbenzenesulphonate	C	-	K	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) 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	¥					CESIO CLP Classification				CESIO UN-GHS Classification				
				Carbon Chain length	Ethoxylation (# EO)	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*
680972-33-2	811-484-5	Ammonium 4-isopropylbenzenesulfonate	C	-	-	NH4	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
657-84-1	211-522-5	Sodium toluene-4-sulphonate	C	-	-	Na	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
1300-72-7	215-090-9	Sodium xylenesulphonate	C	-	-	Na	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
30346-73-7	250-140-3	Potassium xylenesulphonate	C	-	-	K	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) 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	C	-	-	NH4	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
-	701-037-1	sodium (xylenes and 4-ethylbenzene)sulfonates	N	-	-	Na	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07
-	943-024-5	Ammonium (xylenes and 4-ethylbenzene)sulphonate	N	-	-	NH4	100	-	ENV: NC HH: Eye Irrit. 2	ENV: NC HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: NC HH: Acute Tox. 5 (derm.) Eye Irrit. 2**	ENV: NC HH: H313 H319	ENV: - HH: Warning	ENV: - HH: GHS07

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- § §: 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%)
- ***** Classification refers to 100 %, please use ATE formular to derive classification for dilutions.

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 (# EO)	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.																
Category: Nonionics Family: Alkanolamides Typical chemical ingredient: Alkanolamides (DEA)																
68155-07-7	931-329-6	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)		8-18	-	DEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	pending	pending	pending	pending
Typical chemical ingredient: Alkanolamides (MEA)																
69227-24-3	931-330-1	Amides, C8-18 (even-numbered) and C18(unsatd.), N-(hydroxyethyl)		8-18	-	MEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 2	ENV: H411 HH: H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	pending	pending	pending	pending
Typical chemical ingredient: Alkanolamides (MIPA)																
1335203-30-9	931-596-9	Amides, C8-18 (even-numbered) and C18(unsatd.), N-(2-hydroxypropyl)		8-18	-	IPA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 2	ENV: H411 HH: H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	pending	pending	pending	pending
Typical chemical ingredient: Alkanolamides (DEA)																
120-40-1	204-393-1	N,N-bis (2-hydroxyethyl) dodecanamide		12	-	DEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	pending	pending	pending	pending
Typical chemical ingredient: Alkanolamides (MEA)																
90622-77-8	931-338-5	Amides, C12-18 (even-numbered) and C18(unsatd.), N-hydroxyethyl		12-18 & 18 unsatd	-	MEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	pending	pending	pending	pending
Typical chemical ingredient: Alkanolamides (MEA)																
111-57-9	203-883-2	Amides, C16-18 (even-numbered), N-hydroxyethyl		16-18	-	MEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Dam. 1	ENV: H411 HH: H315 H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	pending	pending	pending	pending
Typical chemical ingredient: Alkanolamides (DEA)																
68603-38-3	271-653-9	Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)		16-18 & 18 unsatd	-	DEA	100	-	ENV: Chronic 2 HH: Skin Irrit. 2 Eye Irrit. 2	ENV: H411 HH: H315 H319	ENV: - HH: Danger	ENV: GHS09 HH: GHS05 GHS07	pending	pending	pending	pending
Category: Nonionics Family: Alkyl polyglucosides Typical chemical ingredient: C4 APG																
former 31387-97-0	939-389-5	D-Glucopyranose, oligomeric, butyl glycoside.	N	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: -
Typical chemical ingredient: C6 APG																
54549-24-5	259-217-6	D-Glucopyranose, oligomeric, hexyl glycosides	N	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
Typical chemical ingredient: C8/10 APG																
68515-73-1	500-220-1	D-Glucopyranose, oligomeric, octyldecyl glycosides	C	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
Typical chemical ingredient: C9-11 APG																
157707-87-4	500-394-9	D-Glucopyranose, oligomeric, branched and linear C9-11-alkyl glycosides	C	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

* Changes with regard to list from March 2017. 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 (# EO)	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.																	
Typical chemical ingredient: C9-11 APG																	
157707-87-4	500-394-9	D-Glucopyranose, oligomeric, branched and linear C9-11-alkyl glycosides	C	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	
Typical chemical ingredient: C9-11 APG																	
157707-87-4	500-394-9	D-Glucopyranose, oligomeric, branched and linear C9-11-alkyl glycosides	C	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	
Typical chemical ingredient: C9-11 APG																	
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	
Typical chemical ingredient: C10-16 APG																	
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	
Typical chemical ingredient: C10-16 and C4 APG																	
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)	C	4, 10-16			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	
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)	C	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)	C	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	

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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 (# EO)	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*
Typical chemical ingredient: C16-18 APG																
	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	C	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-(methylamino)-, 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) Acute Tox. 4 (Inh) Eye Dam. 1	ENV: NC HH: H302 H318 H332	ENV: - HH: Danger	ENV: - HH: GHS07 GHS05
Typical chemical ingredient: C9-Glucamide																
85261-19-4	617-694-1	D-Glucitol, 1-deoxy-1-[methyl(1-oxononyl)amino]-	N	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
Typical chemical ingredient: C12/14-Glucamide																
287735-50-6	407-290-1	D-Glucitol, 1-deoxy-1-(methylamino)-, N-C12-14 acyl derivs.	C	12,14	-	-	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
Typical chemical ingredient: C16/18-Glucamide																
287735-54-0	411-130-6	D-Glucitol, 1-deoxy-1-(methylamino)-, N-C16-18 acyl derivs.	C	16,18	-	-	100	-	ENV: Chronic 2 HH: Eye Dam. 1	ENV: H411 HH: H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05	ENV: Acute 2 Chronic 2 HH: Eye Dam. 1	ENV: H401 H411 HH: H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05
Typical chemical ingredient: Cocoyl-Glucamide																
1591783-13-9	940-422-0	D-Glucitol, 1-deoxy-1-(methylamino)-, N-coco acyl derivs.	C	8, 10, 12, 14, 16, 18 and 18u	-	-	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) Eye Dam.1	ENV: H401 HH: H303 H318	ENV: - HH: Danger	ENV: - HH: GHS05
Typical chemical ingredient: Oleyl-Glucamide																
1591782-99-8	940-373-5	D-Glucitol, 1-deoxy-1-(methylamino)-, N-(C16-18 and C18-unsatd. acyl) derivs.	C	16,18 and 18u	-	-	100	-	ENV: Chronic 3 HH: NC	ENV: H412 HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 HH: Acute Tox 5 (oral)	ENV: H401 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: § HH: NC	ENV: § HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: § HH: Skin Irrit. 3	ENV: § HH: H316	ENV: - HH: Warning	ENV: - HH: -
68525-91-7	NA	Fatty acids, C8-18, ethoxylated		8-18	12 EO	-	100	-	ENV: § HH: NC	ENV: § HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: § HH: NC	ENV: § HH: NC	ENV: - HH: -	ENV: - HH: -
61791-29-5	612-401-3	Fatty acids, coco, ethoxylated		8-16 & 18 unsat.	6 EO	-	100	-	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 (# EO)	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*	
68153-64-0 68989-58-2	614-326-1 614-879-9	Fatty acids, tallow, ethoxylated Fatty acids, C16-18 and C18-unsatd., ethoxylated		16-18 & 18 unsat.	10 EO	-	100	-	ENV: § HH: NC	ENV: § HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: § HH: NC	ENV: § HH: NC	ENV: - HH: -	ENV: - HH: -	
9004-96-0	500-015-7	C18 unsatd. acid ethoxylate		18 unsatd.	< 2.5 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	
9004-96-0	NA	C18 unsatd. acid ethoxylate		18 unsatd.	>= 2,5 - <6		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	
9004-96-0	NA	C18 unsatd. acid ethoxylate		18 unsatd.	>=6 - <=8		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: -	
9004-96-0	NA	C18 unsatd. acid ethoxylate		18 unsatd.	>8 - <10		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	
9004-96-0	NA	C18 unsatd. acid ethoxylate		18 unsatd.	>= 10 EO		100		ENV: Chronic 3 HH: §	ENV: H412 HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3 Chronic 3 HH: §	ENV: H402 H412 HH: §	ENV: - HH: -	ENV: - HH: -	
68989-61-7	NA	Fatty acids, C16-18 ethoxylated	N	C16-18	>=6 - <=8		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	
68989-61-7	NA	Fatty acids, C16-18 ethoxylated	N	C16-18	>=40		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: NC HH: §	ENV: NC HH: §	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-unsatd. Fatty Acid glycerol ester, ethoxylated	C	8-18 and C18 unsatd.	1-6.5 EO		100		ENV: NC HH: §	ENV: NC HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 3C HH: §	ENV: H402 HH: §	ENV: - HH: -	ENV: - HH: -	
68201-46-7 (68606-12-2)	NA	C8-C18 (even numbered) and C18-unsatd. Fatty Acid glycerol ester, ethoxylated	C	8-18 and C18 unsatd.	>6.5-17 EO		100		ENV: NC HH: §	ENV: NC HH: §	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		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: -	
Typical chemical ingredient: Diglycerindistearate																	
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: -	
Typical chemical ingredient: Diglycerin monolaurate																	
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: -	

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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 (# EO)	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: Sorbitan ethoxylated fatty acid ester																
9005-64-5	500-018-3	Lauric acid, monoester with sorbitan, ethoxylated	N	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	N	18 unsatd.	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 unsatd	20 EO		100		ENV: Chronic 3 HH: Eye Dam. 1	ENV: H412 HH: H318	ENV: - Danger	ENV: - HH: GHS05	ENV: Acute 3 Chronic 3 HH: Eye Dam. 1	ENV: H402 H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
(9005-67-8)	943-428-1	Sorbitan C16-18 (even numbered) fatty acid esters, ethoxylated (1-6.5 moles ethoxylated)	N	C16-18	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: -
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		12	10 EO	-	100	-	ENV: HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: HH: H302 H318	ENV: - Danger	ENV: - HH: GHS05 GHS07	ENV: HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: HH: H302 H318	ENV: - Danger	ENV: - HH: GHS05 GHS07
Typical chemical ingredient: Amines, coco alkyl, ethoxylated																
61791-14-8 (61791-31-9) (71786-60-2)	500-152-2 (276-014-8)	Amines, coco alkyl, ethoxylated	C	12-18	<2,5 EO	-	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=10) HH: Acute Tox. 4 (oral) Skin Corr. 1C Repro.tox cat 2	ENV: H400 H410 HH: H302 H314 H361d	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08	ENV: Acute 1 (M=10) Chronic 1 (M=10) HH: Acute Tox. 4 (oral) Skin Corr. 1C Repro.tox cat 2	ENV: H400 H410 HH: H302 H314 H361d	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07 GHS08
61791-14-8	NA	Amines, coco alkyl, ethoxylated		12-18	≥ 5 - 10 EO	-	100	-	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: - Danger	ENV: - HH: GHS05 GHS07
61791-14-8	NA	Amines, coco alkyl, ethoxylated		12-18	≥ 10 - 20 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: - Danger	ENV: - HH: GHS05 GHS07
Typical chemical ingredient: Tallow amine ethoxylates																
61791-44-4 (1218787-32-6)	263-177-5 (620-540-6)	Amines, tallow alkyl, ethoxylated		16-18 and C18 unsat.	<2.5 EO	-	100	-	ENV: Acute 1 (M=10) 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: GHS05 GHS07	ENV: Acute 1 (M=10) 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: 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 (# EO)	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*
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: - 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: - 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: §	ENV: H411 HH: §	ENV: - HH: -	ENV: GHS09 HH: -	ENV: Acute 2 Chronic 2 HH: §	ENV: H401 H411 HH: §	ENV: - HH: -	ENV: GHS09 HH: -
Typical chemical ingredient: Oleylamine ethoxylate																
26635-93-8 (25307-17-9) (13127-82-7)	500-048-7 (246-807-3) (236-062-2)	Oleylamine ethoxylate		C18 unsatd.	<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 unsatd.	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 unsatd.	> 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
		Oleylamine ethoxylate		C18 unsatd.	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 unsatd.	20 EO	-	100	-	ENV: Chronic 2 HH: Acute Tox. 4 (oral) Eye Dam. 1	ENV: H411 HH: H302 H318	ENV: - 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: - HH: Danger	ENV: GHS09 HH: GHS07 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 (# EO)	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*
Typical chemical ingredient: Stearylamine ethoxylate																
26635-92-7		Stearylamine ethoxylate		C18	8 - 15 EO		100		ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: §	ENV: H400 H410 HH: §	ENV: Warning HH: -	ENV: GHS09 HH: -	ENV: Acute 1 (M=1) Chronic 1 (M=1) HH: §	ENV: H400 H410 HH: §	ENV: Warning HH: -	ENV: GHS09 HH: -
				C18	25 EO		100		ENV: Chronic 2 HH: §	ENV: H411 HH: §	ENV: - HH: -	ENV: GHS09 HH: -	ENV: Acute 2 Chronic 2 HH: §	ENV: H401 H411 HH: §	ENV: - HH: -	ENV: GHS09 HH: -
Typical chemical ingredient: Amines, C20-22-alkyl, ethoxylated																
70131-58-7	NA	Amines, C20-22-alkyl, ethoxylated		C20-22	34 EO	-	100	-	ENV: § HH: Acute Tox. 4 (oral) Eye Irritation 2	ENV: § HH: H302 H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV: § HH: Acute Tox. 4 (oral) Eye Irritation 2**	ENV: § 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: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 HH: NC	ENV: H401 HH: NC	ENV: - HH: -	ENV: - HH: -
Typical chemical ingredient: Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized																
157905-74-3	931-203-0	Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized		C16-18 and C18 unsatd.	-	-	ENV: 90**** > 80	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 HH: Skin Irrit. 3	ENV: H401 HH: H316	ENV: - HH: Warning	ENV: - HH: -
Typical chemical ingredient: Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized																
157905-74-3	931-203-0	Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized		C16-18 and C18 unsatd.	-	-	30	-	ENV: NC HH: NC	ENV: NC HH: NC	ENV: - HH: -	ENV: - HH: -	ENV:*** HH: NC	ENV:*** HH: NC	ENV: - HH: -	ENV: - HH: -
Typical chemical ingredient: Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized																
	931-216-1	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized		C18 unsatd.	-	-	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
Typical chemical ingredient: Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized																
-	931-216-1	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized		C18 unsatd.	-	-	> 28	-	ENV: NC HH: Skin Irrit. 2 Eye Irrit. 2	ENV: NC 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
Typical chemical ingredient: Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized																
-	931-216-1	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized		C18 unsatd.	-	-	≤ 28	-	ENV: NC HH: NC	ENV: NC 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 (# EO)	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.																
Category: Cationics Family: Methyl-di-ethanolamine esterquats Typical chemical ingredient: Ethanaminium, 2-hydroxy-N-(2-hydroxyethyl)-N,N-dimethyl-, esters with C16-18 and C18-unsatd. fatty acids, chlorides																
1079184-43-2	620-174-7	Ethanaminium, 2-hydroxy-N-(2-hydroxyethyl)-N,N-dimethyl-, esters with C16-18 and C18-unsatd. fatty acids, chlorides		C16-18 and C18 unsatd.	-	-	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: -
Category: Cationics Family: Ethoxylated Quaternary Ammonium Compounds (2.5 + EO) Typical chemical ingredient: Quaternary coco amine ethoxylate, 15 EO dimethylsulfate																
68989-03-7		PEG-5 Cocomonium methosulphate		12-18	15 EO	Dime-thyl sulphate salt	100	-	ENV: Chronic 2 HH: Eye Dam. 1	ENV: H411 HH: H318	ENV: - HH: Danger	ENV: GHS09 HH: GHS05	ENV: Chronic 2 HH: Eye Dam. 1	ENV: H401 H411 HH: pending	ENV: - HH: -	ENV: GHS09 HH: -
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		12-14	-	Cl	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: GHS05 GHS06	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: GHS05 GHS06
Typical chemical ingredient: Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides																
-	939-253-5	Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides		12-16	-	Cl	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: GHS05 GHS06	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: GHS05 GHS06
Typical chemical ingredient: Quaternary ammonium compounds, C12-C18 (even numbered) alkyltrimethyl chloride																
-	939-616-8	Quaternary ammonium compounds, C12-C18 (even numbered) alkyltrimethyl chloride		12-18	-	Cl	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Acute tox (derm.) 3 Skin Corr. 1C Eye Dam. 1	ENV: H400 H410 HH: H302 H311 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS06	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Acute tox (derm.) 3 Skin Corr. 1C Eye Dam. 1	ENV: H400 H410 HH: H302 H311 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS06
Typical chemical ingredient: Hexadecyl trimethyl ammonium chloride (cetrimonium chloride)																
112-02-7	203-928-6	Hexadecyl trimethyl ammonium chloride (cetrimonium chloride)		16	-	Cl	100	-	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Acute tox (derm.) 3 Skin Corr. 1C Eye Dam. 1	ENV: H400 H410 HH: H302 H311 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS06	ENV: Acute 1 (M=10) Chronic 1 (M=1) HH: Acute Tox. 4 (oral) Acute tox (derm.) 3 Skin Corr. 1C Eye Dam. 1	ENV: H400 H410 HH: H302 H311 H314 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS06
Typical chemical ingredient: Quaternary ammonium compounds, benzyl-C16-C18 (even numbered)-alkyldimethyl, chlorides																
-	939-290-7	Quaternary ammonium compounds, benzyl-C16-C18 (even numbered)-alkyldimethyl, chlorides		16-18	-	Cl	100	-	ENV: Acute 1 (M=10) Chronic 2 HH: Acute Tox. 4 (oral) Skin Corr. 1B	ENV: H400 H411 HH: H302 H314	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS06	ENV: Acute 1 (M=10) Chronic 2 HH: Acute Tox. 4 (oral) Skin Corr. 1B	ENV: H400 H411 HH: H302 H314	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS06

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				Carbon Chain length	Ethoxylation (# EO)	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.																
Category: Amphoteric Family: Alkylbetains Typical chemical ingredient: C12-14 Alkylbetains																
66455-29-6	931-700-2	Betaines, C12-14 (even numbered)-alkyldimethyl	C	12-14	-	-	16 < C ≤ 100	-	ENV: Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H412 HH: H318 H315	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. 1 Skin Irrit. 2	ENV: H401 H412 HH: H314 H318	ENV: - HH: Danger	ENV: - HH: GHS05
66455-29-6	931-700-2	Betaines, C12-14 (even numbered)-alkyldimethyl	C	12-14	-	-	1 ≤ C ≤ 16	-	ENV:*** HH: Eye Irrit. 2	ENV:*** HH: H319	ENV: - HH: Warning	ENV: - HH: GHS07	ENV:*** HH: Skin Irrit. 3 Eye Irrit. 2A	ENV:*** HH: H316 H319	ENV: - HH: Warning	ENV: - HH: GHS07
Typical chemical ingredient: Coco alkyldimethyl betaine																
68424-94-2				8-18			100		ENV: Chronic 3 HH: §	ENV: H412 HH: §	ENV: - HH: -	ENV: - HH: -	ENV: Acute 2 Chronic 3 HH: §	ENV: H401 H412 HH: §	ENV: - HH: -	ENV: - HH: -
Typical chemical ingredient: N-dodecyl-N,N-dimethylbetaine myristyl betaine																
	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
Category: Amphoteric 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	-	-	> 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: -
	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: -

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				Carbon Chain length	Ethoxylation (# EO)	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*
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. 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
931-513-6		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. 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
931-513-6		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. 1	ENV:*** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV:*** HH: Eye Dam. 1	ENV:*** HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05
931-513-6		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. 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
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: -

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				Carbon Chain length	Ethoxylation (# EO)	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*
931-333-8		1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) and C18 unsatd. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsatd.			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-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) and C18 unsatd. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsatd.	-	-	> 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-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) and C18 unsatd. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsatd.	-	-	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-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) and C18 unsatd. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsatd.	-	-	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-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) and C18 unsatd. acyl derivs., hydroxides, inner salts		C8-18 and C18 unsatd.	-	-	< 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.																
* For further explanation on hazard statements and pictograms see at the end of the table.																
Category: Amphoteric 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	C	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 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	ENV: H400 H412 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07	ENV: Acute 1 (M=1) Chronic 3 HH: Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. cat.1	ENV: H400 H412 HH: H302 H315 H318	ENV: Warning HH: Danger	ENV: GHS09 HH: GHS05 GHS07

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				Carbon Chain length	Ethoxylation (# EO)	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*
68155-09-9	268-938-5	Amides, coco, N-[3-(dimethyl-amino)propyl], N-oxides	C	8-18 and C18 unsatd.	-	-	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
* 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: Amphoteric Family: Amine Oxides Typical chemical ingredient: Alkyl dimethyl amine oxide																
2605-79-0	220-020-5	N,N-dimethyldecylamine 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
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 numbered)-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 numbered)-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: Amphoteric Family: Amphoacetates																
68608-64-0	271-792-5 (946-565-5)	Acetic acid, chloro-, reaction products with 2-heptyl-4,5-dihydro-1H-imidazole-1-ethanol and sodium hydroxide	N	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 (derm.)	ENV: H401 H412 HH: H313	ENV: - HH: -	ENV: - HH: -

* Changes with regard to list from March 2017. 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 (# EO)	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*
68608-66-2	271-794-6	Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C11-alkyl) derivs. and sodium hydroxide and chloroacetic acid	C	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 (derm.)	ENV: H401 H412 HH: H319 H303 H313	ENV: - HH: Warning	ENV: - HH: GHS07
68608-66-2	271-794-6	Reaction products of 1H-Imidazole-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-Imidazole-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 (derm.)	ENV:*** HH: H319 H303 H313	ENV: - HH: Warning	ENV: - HH: GHS07
-	938-645-3	Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C11-C13-odd-numbered alkyl) derivs. And sodium hydroxide and chloroacetic acid	C	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 (derm.)	ENV: H401 H412 HH: H319 H313	ENV: - HH: -	ENV: - HH: -
-	938-645-3	Reaction products of 1H-Imidazole-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-Imidazole-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 (derm.)	ENV:*** HH: H319 H313	ENV: - HH: Warning	ENV: - HH: GHS07
-	931-291-0	Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C17-odd-numbered, C17-unsatd. alkyl) derivs. and sodium hydroxide and chloroacetic acid	C	C8-18	-	Na	100	-	ENV: Chronic 3 HH: Eye Dam. Cat. 1	ENV: H412 HH: H318	ENV: - HH: Danger	ENV: - HH: GHS05	ENV: Acute 2 Chronic 3 HH: Eye Dam. Cat. 1 Acute Tox. 5 (derm.)	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-imidazole-1-ethanol and sodium hydroxide		18	-	Na	> 25	-	ENV: § HH: §	ENV: § HH: §	ENV: - HH: -	ENV: - HH: -	ENV: § HH: §	ENV: § HH: §	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.

OTHER SURFACTANTS

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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 (# EO)	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
68608-63-9	271-790-4	Acetic acid, chloro-, reaction products with 2-heptadecyl-4,5-dihydro-1H-imidazole-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.



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

- § §: 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 2020/2021. The 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 was 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 no 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 were 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 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 these data, which is by no means precluded by the CESIO recommendations.