

MARLIPAL 24/100

Version: 7.02

Revision Date 07.02.2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name	MARLIPAL 24/100
Substance name (REACH / CLP)	Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use	Industrial use raw material for washing and cleaning agents surface-active substance
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number	+ 49 (0) 23 65 - 49 22 32
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SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity Category 4 (Oral)	Harmful if swallowed.
Serious eye damage Category 1	Causes serious eye damage.
Chronic aquatic toxicity Category 3	Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)****Hazard pictograms**

Signal word	Danger
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Hazard statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)

Remarks on classification and labelling

The surfactant(s) contained in this product is (are) classified according to CESIO recommendations.

2.3 Other hazards

Danger of slipping after spill or leakage.
Forms slippery/greasy layers with water.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

Alcohols, C12-14, ethoxylated (>=2.5 EO)

content: >= 90 - <= 100 %	component type: Active ingredient
EC-No.: 932-106-6	Index-No.:
REACH No.: Not relevant (polymer)	CAS-No.: 68439-50-9
Substance name (REACH / CLP): Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)	
Classification (Regulation (EC) No 1272/2008):	Acute Tox. 4 (Oral) H302
	Eye Dam. 1 H318
	Aquatic Chronic 3 H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	If you feel unwell, seek medical advice (show the label where possible).
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.

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In case of skin contact	Wash off immediately with plenty of water. Consult a physician if necessary.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available. Risks: No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: No information available.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO2)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment.
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6.2 Environmental precautions

Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Use mechanical handling equipment. The material taken up must be disposed of in accordance with regulations.
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6.4 Reference to other sections

For personal protection see section 8.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Wear personal protective equipment. Avoid contact with skin and eyes.
Advice on protection against fire and explosion	Provide sufficient air exchange and/or exhaust in work rooms. Do not spray on a naked flame or any incandescent material.
Fire-fighting class	B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep tightly closed in a dry and cool place.
Storage class (TRGS 510)	11: Combustible Solids
Other data	Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Specific use(s)	This information is not available.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)**Substance name: Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)**

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)**Substance name: Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)**

No data available

8.2 Exposure controls**ENGINEERING MEASURES**

If possible, use material transfer/filling, metering and blending plants that are closed.

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PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection	No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a combined filter (e.g. A-P2 or ABEK-P2), in compliance with EN 141.
Hand protection	<p>The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).</p> <p>gloves suitable for permanent contact: Material: butyl-rubber Break through time: >= 480 min Layer thickness: >= 0,7 mm</p> <p>gloves suitable for splash protection: Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Layer thickness: >= 0,4 mm</p>
Eye protection	Tightly fitting safety goggles, Safety glasses with side-shields
Skin and body protection	Protective suit
Hygiene measures	Avoid contact with eyes. General industrial hygiene practice. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke.
Protective measures	Avoid contact with eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration.
Water	Do not flush into surface water or sanitary sewer system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	solid; 20 °C; 1.013 hPa
Form	pasty
Colour	colourless
Odour	mild
Odour Threshold	No valid method available
pH	5 - 7; 20 g/l; 20 °C

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Melting point/range	21 °C
Boiling point/boiling range	Not applicable
Flash point	212 °C; DIN 51376
Evaporation rate	Not relevant / not applicable Justification: Solid
Flammability (solid, gas)	not auto-flammable
Lower explosion limit	Not applicable Justification: Solid
Upper explosion limit	Not applicable Justification: Solid
Vapour pressure	< 0,1 hPa; 20 °C
Relative vapour density	Not relevant / not applicable, Justification: Solid
Density	ca.0,99 g/cm ³ ; 50 °C
Relative density	No data available
Water solubility	20 °C; completely miscible
Partition coefficient: n-octanol/water	Not relevant / not applicable Justification: Solid
Ignition temperature	ca. 340 °C; DIN 51794
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	Not applicable, Justification: Solid
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

Additional advice	no data
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SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Note	Stable at normal ambient temperature and pressure.
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10.2 Chemical stability

Note	No decomposition if stored and applied as directed.
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10.3 Possibility of hazardous reactions

Hazardous reactions	None known.
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10.4 Conditions to avoid

Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
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10.5 Incompatible materials to avoid

Materials to avoid	Strong acids and oxidizing agents;
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10.6 Hazardous decomposition products

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Hazardous decomposition products	No decomposition if stored normally.
Thermal decomposition	Hazardous decomposition products formed under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): LD50 Rat: > 300 - 2.000 mg/kg Category approach own test results/literature values Harmful if swallowed.
Acute inhalation toxicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): No data available
Acute dermal toxicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): LD50 Rabbit: > 2.000 mg/kg; Category approach (literature value) Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Rabbit: not irritating own test results/literature values Category approach Based on available data, the classification criteria are not met.
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Serious eye damage/eye irritation

Eye irritation	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Rabbit: Irreversible effects on the eye own test results/literature values Category approach Causes serious eye damage.
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Respiratory or skin sensitisation

Sensitisation	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Maximisation Test Guinea pig: not sensitizing Category approach (literature value) Based on available data, the classification criteria are not met.
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Germ cell mutagenicity

Genotoxicity in vitro	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): In vitro tests did not show mutagenic effects Category approach own test results/literature values
Genotoxicity in vivo	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): In vivo tests did not show mutagenic effects Category approach (literature value)

Remarks	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Based on available data, the classification criteria are not met.
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Carcinogenicity

Carcinogenicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential. Category approach (literature value)
Remarks	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Based on available data, the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Two-generation reproductive toxicity: Rat NOAEL ((parents)): > 250 mg/kg (based on body weight and day) NOAEL (F1): > 250 mg/kg (based on body weight and day) NOAEL (F2): > 250 mg/kg (based on body weight and day) Category approach (literature value)
RemarksReproductive toxicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Based on available data, the classification criteria are not met.
Teratogenicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Rat; Oral NOAEL: > 50 mg/kg (based on body weight and day) NOAEL (pregnant female): 50 mg/kg (based on body weight and day); Two-generation reproductive toxicity Category approach (literature value)
Remarks-Teratogenicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Rat; Dermal NOAEL: > 250 mg/kg (based on body weight and day) NOAEL (pregnant female): 250 mg/kg (based on body weight and day); Two-generation reproductive toxicity Category approach (literature value)
Remarks-Teratogenicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Based on available data, the classification criteria are not met.

STOT - single exposure

Remarks	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): The substance or mixture is not classified as specific target organ toxicant, single exposure.
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STOT - repeated exposure

Remarks	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Rat; Oral; 2 years NOAEL: 50 mg/kg (based on body weight and day) Target Organs: Heart, Liver, Kidney Symptoms: reduced body weight gain, increased relative organ weights Category approach (literature value)

Aspiration hazard

Aspiration toxicity	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Not applicable
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Toxicological information	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Toxicokinetics Category approach The substance is expected to be rapidly absorbed and excreted. (literature value)
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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): EC50 (48 h) Daphnia magna (Water flea): > 1 mg/l ; static test; OECD Test Guideline 202 own test results/literature values Category approach
Toxicity to aquatic plants	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): EC50 (72 h) Desmodesmus subspicatus (green algae): $> 1 - 10$ mg/l ; static test; OECD Test Guideline 201; own test results/literature values Category approach Alcohols, C12-14, ethoxylated (≥ 2.5 EO): EC10 (72 h) Desmodesmus subspicatus (Scenedesmus subspicatus): $> 0,1 - 1$ mg/l ; Growth rate; (literature value)
Toxicity to bacteria	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): EC50 activated sludge: 140 mg/l; Respiration inhibition Category approach (literature value)
Toxicity to soil dwelling organisms	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): NOEC Eisenia foetida: 220 mg/kg; reproduction rate; artificial soil Category approach (literature value)
Toxicity to terrestrial flora	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test Guideline 208 own test results/literature values Category approach
Toxicity for other terrestrial non-mammalian fauna	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): No data available

12.2 Persistence and degradability

Biodegradability	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B own test results/literature values Category approach
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12.3 Bioaccumulative potential

Bioaccumulation	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Bioaccumulation is unlikely. (literature value)
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12.4 Mobility in soil

Mobility	Alcohols, C12-14, ethoxylated (≥ 2.5 EO): Koc: > 3800 ; calculated immobile strong adsorption to soil
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12.5 Results of PBT and vPvB assessment

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Results of PBT assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Results of PBT assessment Alcohols, C12-14, ethoxylated (≥ 2.5 EO):
Based on available data, the classification criteria are not met.

12.6 Other adverse effects

General advice Alcohols, C12-14, ethoxylated (≥ 2.5 EO):
Harmful to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Can be incinerated, when in compliance with local regulations.

waste code of the European Union: EWC The waste code must be determined in agreement with the regional waste disposal authority or company. A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

14.2 Proper shipping name

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

14.3 Transport hazard class

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

14.4 Packing group

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods

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IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type	2
Pollution category	Y
Remarks	MARPOL NAME: Alcohol (C12–C16) poly(7-19) ethoxylates

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Occupational restrictions	Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.
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NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive:: Not applicable
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Other regulations	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
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NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment**Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)**

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

SECTION 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3.**

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

3. Composition/information on ingredients
8. Exposure controls/personal protection
9. Physical and chemical properties
11. Toxicological information
12. Ecological information
14. Transport information
15. Regulatory information

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Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse