

MARLINAT 242/28

Version: 12.07

Revision Date 2019/11/05

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

Trade name	MARLINAT 242/28
INCI	Sodium Laureth Sulfate

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 raw material for personal care products
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg Germany 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)**

Skin irritation Category 2	Causes skin irritation.
Serious eye damage Category 1	Causes serious eye damage.
Long-term (chronic) aquatic hazard Category 3	Harmful to aquatic life with long lasting effects.

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

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Signal word	Danger
Hazard statements	
H315	Causes skin irritation.
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 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- Alcohols, C12-14, ethoxylated, sulfates, sodium salts (< 2.5 EO)

2.3 Other hazards

No hazards to be specially mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture 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, sulfated, sodium salts (< 2.5 EO)****content:** >= 25 - < 30 %**component type:** Active ingredient**EC-No.:** 500-234-8**Index-No.:****CAS-No.:** 68891-38-3**REACH No.:** 01-2119488639-16-xxxx**Substance name (REACH / CLP):** Alcohols, C12-14, ethoxylated, sulfates, sodium salts (< 2.5 EO)**Classification (Regulation (EC) No 1272/2008):**

Eye Dam.	1	H318
Skin Irrit.	2	H315
Aquatic Chronic	3	H412

Specific Concentration Limits (see section 11)

>= 10 %	Eye Dam. Category 1; H318
5 - < 10 %	Eye Irrit. Category 2; H319

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

Other data

This product contains a biocidal product to prevent microbial contamination and decomposition by microorganisms. The biocidal active substance contained in this product is Bronopol, CAS 52-51-7.

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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). Take off all contaminated clothing immediately.
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.
In case of skin contact	Wash off immediately with plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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 (CO ₂)
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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.
Special precautions	Forms slippery/greasy layers with water.

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**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling****Advice on safe handling**

Wear personal protective equipment.
If a warming up of the material is necessary it should only be done by treatment with warm water of maximal 30°C.

如必须对物料进行加热，则只能使用最高温度不超过30°C的热水进行。
The use of hot steam to warm up the material is absolutely prohibited.
Frozen valves or outlets have to be handled in the same manner.
The total quantity has to be filled in one compartment only.

Advice on protection against fire and explosion

No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage areas and containers**

pH must be checked at regular intervals. Keep container tightly closed. Protect from frost, heat and sunlight. Optimal storage temperature is between 20°C and 30°C.

Storage class (TRGS 510)

12: Non Combustible Liquids

Other data

Optimal storage temperature is between 20°C and 30°C.

container material

suitable materials: Stainless steel: 1.4541, 1.4571 (DIN); X6CrNiTi18-10, X6CrNiMoTi17-12-2 (EN); 321, 316 Ti (AISI), Temperature, 10 - 30°C

7.3 Specific end use(s)**Specific use(s)**

This information is not available.

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

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DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (< 2.5 EO)			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	2750 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	175 mg/m3	
	dermal, long-term exposure - local effects	0.132 mg/cm2	
	Inhalation, long-term exposure - local effects		Not relevant / Not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Oral, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	1650 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	52 mg/m3	
	Oral, long-term exposure - systemic effects	15 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects	0.079 mg/cm2	
	Inhalation, long-term exposure - local effects		Not relevant / Not applicable

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PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (< 2.5 EO)		
Environmental Compartment	Value	Note
Fresh water	0.24 mg/l	
Marine water	0.024 mg/l	
intermittent release	0.071 mg/l	
Sewage treatment plant	10000 mg/l	
Fresh water sediment	0.9168 mg/kg	based on dry weight
Marine sediment	0.0917 mg/kg	based on dry weight
Soil	7.5 mg/kg	based on dry weight
food		Not relevant / Not applicable

8.2 Exposure controls

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 type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

Hand protection

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).

gloves suitable for permanent contact:

Material: butyl-rubber
Break through time: ≥ 480 min
Layer thickness: ≥ 0.7 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex
Break through time: ≥ 30 min
Layer thickness: ≥ 0.4 mm

Eye protection

Safety glasses with side-shields

Skin and body protection

Wear suitable protective equipment.

Hygiene measures

Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.

Protective measures

Avoid contact with eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice

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

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid; 20 °C; 1,013 hPa
Form	liquid
Colour	light yellow
Odour	mild
Odour Threshold	No valid method available.
pH	6.5 - 9.0; ca. 350 g/l; 20 °C 7 - 8.5; 10 g/l; 20 °C
Melting point/range	ca. 0 °C
Boiling point/boiling range	ca. 100 °C
Flash point	does not flash
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0.1 hPa; 20 °C
Relative vapour density	> 1
Density	ca.1.04 g/cm ³ ; 20 °C; DIN 51757
Water solubility	20 °C; completely miscible
Partition coefficient: n-octanol/water	not applicable (mixture)
Ignition temperature	Not applicable
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 50 mPas; 20 °C; ISO 6388
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

None known.

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 Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid Avoid temperatures above 30°C, direct sunlight and contact with sources of heat.

10.5 Incompatible materials to avoid

Materials to avoid Strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products diluted sulfuric acid

Thermal decomposition Decomposes on heating.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
LD50 Rat: > 2,000 - 5,000 mg/kg; OECD Test Guideline 401
(literature value)
Based on available data, the classification criteria are not met.

Acute inhalation toxicity Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
The study is not necessary.
Sufficient data are available from alternative routes of exposure.

Acute dermal toxicity Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402
(literature value)
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Rabbit: irritating; OECD Test Guideline 404
Causes skin irritation.

Serious eye damage/eye irritation

Eye irritation Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Rabbit: highly irritating; OECD Test Guideline 405
(literature value)
Test substance: Alcohols, C12-14 , ethoxylated, sulfated, sodium salts, ≥ 10%
Causes serious eye damage.

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Rabbit: irritating; OECD Test Guideline 405
(literature value)
Test substance: Alcohols, C12-14 , ethoxylated, sulfated, sodium salts, ≥ 5% - < 10%
Causes serious eye irritation.

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Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Rabbit: not irritating; OECD Test Guideline 405
 (literature value)
 Test substance: Alcohols, C12-14 , ethoxylated, sulfated, sodium salts, < 5%
 Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation**Sensitisation**

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406
 Based on available data, the classification criteria are not met.

Germ cell mutagenicity**Genotoxicity in vitro**

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 In vitro tests did not show mutagenic effects
 own test results/literature values

Genotoxicity in vivo

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 In vivo tests did not show mutagenic effects
 (literature value)

Remarks

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Based on available data, the classification criteria are not met.

Carcinogenicity**Carcinogenicity**

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 The substance has been shown to be not genotoxic, therefore it is not expected to
 have a carcinogenic potential.

Remarks

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Based on available data, the classification criteria are not met.

Reproductive toxicity**Reproductive toxicity**

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Two-generation reproductive toxicity: Rat; Drinking water; OECD Test Guideline
 416
 No toxicity to reproduction
 (literature value)

RemarksReproductive toxicity

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Based on available data, the classification criteria are not met.

Teratogenicity

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Rat; Oral; OECD Test Guideline 414
 Did not show teratogenic effects in animal experiments.
 (literature value)

Remarks-Teratogenicity

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Based on available data, the classification criteria are not met.

STOT - single exposure**Remarks**

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 The substance or mixture is not classified as specific target organ toxicant, single
 exposure.

STOT - repeated exposure**Remarks**

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 The substance or mixture is not classified as specific target organ toxicant,
 repeated exposure.

Repeated dose toxicity

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
 Rat; Oral; 90-day
 NOAEL: > 225 mg/kg (based on body weight and day); OECD Test Guideline 408
 Target Organs: Liver
 Symptoms: Gastrointestinal disturbance, Liver disorders

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(literature value)

Aspiration hazard**Aspiration toxicity**

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Not applicable

Toxicological information

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Toxicokinetics, metabolism and distribution
Components of the product may be absorbed into the body by ingestion.
The substance is poorly absorbed via skin.
The substance is metabolised and excreted.
extensive and rapid metabolism

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Toxicity to fish**

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
LC50 Brachydanio rerio (zebrafish): > 1 - 10 mg/l ; flow-through test; OECD Test Guideline 203

Toxicity to fish - Chronic toxicity

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
NOEC (28 d) Oncorhynchus mykiss (rainbow trout): 0.14 mg/l; mortality; flow-through test; OECD Test Guideline 204
(literature value)

Toxicity to daphnia and other aquatic invertebrates

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l ; static test; OECD Test Guideline 202

Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
NOEC (21 d) Daphnia magna (Water flea): 0.27 mg/l; reproduction rate; flow-through test; OECD Test Guideline 211
(literature value)
Category approach

Toxicity to aquatic plants

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
EC50 (72 h) Desmodesmus subspicatus (green algae): > 10 - 100 mg/l ; Growth rate; static test; OECD Test Guideline 201

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
NOEC (72 h) Desmodesmus subspicatus (green algae): 0.93 mg/l ; Growth rate; static test; OECD Test Guideline 201

Toxicity to bacteria

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
EC10 Pseudomonas putida: > 10,000 mg/l; Cell multiplication inhibition test

Toxicity to soil dwelling organisms

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
NOEC (56 d) Eisenia fetida (earthworms): 750 mg/kg; reproduction rate; OECD Test Guideline 222
(literature value)

Toxicity to terrestrial flora

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
The study is not necessary.
Justification:
Direct exposure to soil is unlikely.
Readily biodegradable.

Toxicity for other terrestrial non-mammalian fauna

Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Not relevant
Justification:
Studies on birds do not need to be conducted due to large mammalian dataset.

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Readily biodegradable.

12.2 Persistence and degradability**Biodegradability**Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Readily biodegradable.; > 70 %; 28 d; aerobic; OECD Test Guideline 301AAlcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Biodegradable; > 60 %; 41 d; anaerobic; ISO Draft
(literature value)**12.3 Bioaccumulative potential****Bioaccumulation**Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Bioaccumulation is unlikely.

Justification:

Substance is readily biodegradable and has a low aquatic toxicity.
Category approach**12.4 Mobility in soil****Mobility**Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
Adsorption/Soil; Koc: 2.2; calculated
Highly mobile in soils**12.5 Results of PBT and vPvB assessment****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.

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 assessmentAlcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 2.5 EO):
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).**12.6 Other adverse effects****General advice**Alcohols, C12-14 , ethoxylated, sulfated, sodium salts (< 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**

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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
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

Transport temperature must not fall below +5°C.

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

Remarks	No information available.
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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

Other regulations

The surfactant(s) contained in this preparation complies (comply) 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.

NOTIFICATION STATUS

Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia Inventory of Chemical Substances (AICS)	AICS	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	TCSI	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	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, ethoxylated, sulfates, sodium salts (< 2.5 EO)**

A Chemical Safety Assessment has been carried out for this substance.

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

H315

Causes skin irritation.

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

Safety datasheet sections which have been updated:

- 12. Ecological information
- 15. Regulatory information

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
IUPAC	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

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Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (< 2.5 EO)

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_All_Uses.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_AISE.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_CEPE.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_COLIPA.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_ECPA.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_EFCC.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_EFMA.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_EPDLA.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_FECC.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_FEICA.pdf

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000356_EN_01_TEGEWA.pdf
