

**MARLINAT 242/90 M**

Version: 10.07

Revision Date 13.07.2018

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

Trade name	<b>MARLINAT 242/90 M</b>
INCI	MIPA Laureth Sulfate (and) Propylene Glycol

**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
	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.
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

H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ 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 ( $\leq 2.5$  moles EO), sulfated, monoisopropanolamine salt

### 2.3 Other hazards

None known.

## 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 ( $\leq 2.5$ moles EO), sulfated, monoisopropanolamine salts

<b>content:</b> $\geq 90$ - $\leq 100$ %	<b>component type:</b> Active ingredient									
<b>EC-No.:</b> 932-185-7	<b>Index-No.:</b>									
<b>REACH No.:</b> 01-2119976350-37-0000	<b>CAS-No.:</b> 1187742-72-8									
<b>Substance name (REACH / CLP):</b> Alcohols, C12-14 (even numbered), ethoxylated ( $\leq 2.5$ moles EO), sulfated, monoisopropanolamine salt										
<b>Classification (Regulation (EC) No 1272/2008):</b>	<table> <tr> <td>Eye Dam.</td> <td>1</td> <td>H318</td> </tr> <tr> <td>Skin Irrit.</td> <td>2</td> <td>H315</td> </tr> <tr> <td>Aquatic Chronic</td> <td>3</td> <td>H412</td> </tr> </table>	Eye Dam.	1	H318	Skin Irrit.	2	H315	Aquatic Chronic	3	H412
Eye Dam.	1	H318								
Skin Irrit.	2	H315								
Aquatic Chronic	3	H412								

#### Specific Concentration Limits (see section 11)

$\geq 10$ %	Eye Dam. Category 1; H318
5 - < 10 %	Eye Irrit. Category 2; H319

### Substances for which maximum allowable workplace concentrations have been laid down

#### Propane-1,2-diol

<b>content:</b> $\geq 10$ - < 20 %	<b>component type:</b> Active ingredient
<b>EC-No.:</b> 200-338-0	<b>Index-No.:</b>
<b>REACH No.:</b> 01-2119456809-23-XXXX	<b>CAS-No.:</b> 57-55-6

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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**

<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.
<b>If inhaled</b>	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off immediately with plenty of water. Consult a physician.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed</b>	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**

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

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: No information available.
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**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

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

<b>Specific hazards during firefighting</b>	Dangerous gases or fumes may occur in case of fire.
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**5.3 Advice for firefighters**

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Use personal protective equipment.
<b>Special precautions</b>	No conditions to be specially mentioned.

**6.2 Environmental precautions**

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

### 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.  
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.  
If a warming up of the material is necessary it should only be done by treatment with warm water of maximal 45°C.

**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 ca. 20°C.

**Storage class (TRGS 510)** 10: Combustible liquids

**Other data** Optimal storage temperature is ca. 20°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

Control parameters / Substance name	Typ	Control parameters	Update	Basis
PROPANE-1,2-DIOL, TOTAL (VAPOUR AND PARTICULATES)	TWA TWA	470 mg/m <sup>3</sup> 150 ppm	2011 2011	Ireland Exposure Limit Values List
PROPANE-1,2-DIOL, PARTICULATES	TWA	10 mg/m <sup>3</sup>	2011	Ireland Exposure Limit Values List

##### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

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## DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Alcohols, C12-14 (even numbered), ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salt			
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	The value is based on body weight and day.
	Inhalation, long-term exposure - systemic effects	175 mg/m <sup>3</sup>	
	dermal, long-term exposure - local effects	0,132 mg/cm <sup>2</sup>	
	Inhalation, long-term exposure - local effects		Not relevant / not applicable
	Consumers	dermal, Acute/short-term exposure - systemic effects	
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	The value is based on body weight and day.
Inhalation, long-term exposure - systemic effects		52 mg/m <sup>3</sup>	
Oral, long-term exposure - systemic effects		15 mg/kg	The value is based on body weight and day.
dermal, long-term exposure - local effects		0,079 mg/cm <sup>2</sup>	
Inhalation, long-term exposure - local effects		Not relevant / not applicable	

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## PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Alcohols, C12-14 (even numbered), ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salt		
Environmental Compartment	Value	Note
Fresh water	0,014 mg/l	
Marine water	0,0014 mg/l	
intermittent release	0,077 mg/l	
treatment plant	10000 mg/l	
Fresh water sediment	0,0617 mg/kg	based on dry weight
Marine sediment	0,00617 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

<b>Respiratory protection</b>	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.
<b>Hand protection</b>	<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><b>gloves suitable for permanent contact:</b>  Material: butyl-rubber  Break through time: &gt;= 480 min  Layer thickness: &gt;= 0,7 mm</p> <p><b>gloves suitable for splash protection:</b>  Material: Nitrile rubber/nitrile latex  Break through time: &gt;= 30 min  Layer thickness: &gt;= 0,4 mm</p>
<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Wear suitable protective equipment.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wear suitable gloves and eye/face protection.
<b>Protective measures</b>	Wear suitable gloves and eye/face protection. Avoid contact with the skin and the eyes.

### ENVIRONMENTAL EXPOSURE CONTROLS

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**General advice**

Avoid subsoil penetration.  
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**

<b>Physical state</b>	liquid; 20 °C; 1.013 hPa
<b>Form</b>	liquid
<b>Colour</b>	clear
<b>Odour</b>	faint
<b>Odour Threshold</b>	No valid method available
<b>pH</b>	6 - 8; 20 g/l; 20 °C
<b>Melting point/range</b>	ca. 5 °C
<b>Boiling point/boiling range</b>	> 260 °C; 1.010 hPa; yes
<b>Flash point</b>	125 °C; DIN 51758
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not applicable (liquid)
<b>Lower explosion limit</b>	Not relevant / not applicable Justification: Product is not classified as highly or extremely flammable.
<b>Upper explosion limit</b>	Not relevant / not applicable Justification: Product is not classified as highly or extremely flammable.
<b>Vapour pressure</b>	20 °C; similar to water
<b>Relative vapour density</b>	> 1
<b>Density</b>	ca. 1,00 g/cm <sup>3</sup> ; 20 °C
<b>Water solubility</b>	20 °C; completely miscible
<b>Partition coefficient: n-octanol/water</b>	not applicable (mixture)
<b>Ignition temperature</b>	260 °C; DIN 51794
<b>Viscosity, dynamic</b>	ca. 1.000 mPas; 20 °C; ISO 2555
<b>Explosive properties</b>	not expected based on structure and functional groups
<b>Oxidizing properties</b>	not expected based on structure and functional groups

**9.2 Other data**

None known.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

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<b>Note</b>	No decomposition if stored and applied as directed.
<b>10.2 Chemical stability</b>	
<b>Note</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	
<b>Hazardous reactions</b>	None known.
<b>10.4 Conditions to avoid</b>	
<b>Conditions to avoid</b>	Avoid temperatures above 50°C, direct sunlight and contact with sources of heat.
<b>10.5 Incompatible materials to avoid</b>	
<b>Materials to avoid</b>	Strong acids and oxidizing agents;
<b>10.6 Hazardous decomposition products</b>	
<b>Hazardous decomposition products</b>	diluted sulfuric acid
<b>Thermal decomposition</b>	Decomposes on heating.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects****Acute toxicity**

<b>Acute oral toxicity</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: LD50 Rat: > 2.000 - 5.000 mg/kg; OECD Test Guideline 401 (literature value) Category approach Based on available data, the classification criteria are not met.
<b>Acute inhalation toxicity</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: The study is not necessary. Justification: Sufficient data are available from alternative routes of exposure.
<b>Acute dermal toxicity</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402 (literature value) Category approach Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

<b>Skin irritation</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: Rabbit: irritating; OECD Test Guideline 404 Category approach Causes skin irritation.
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**Serious eye damage/eye irritation**

<b>Eye irritation</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: Rabbit: Irreversible effects on the eye; OECD Test Guideline 405
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## Category approach

Test substance: Alcohols, C12-14 , ethoxylated, sulfated, sodium salts, ≥ 10%  
Causes serious eye damage.

Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

Rabbit: irritating; OECD Test Guideline 405

## Category approach

Test substance: Alcohols, C12-14 , ethoxylated, sulfated, sodium salts, ≥ 5% - < 10%

Causes serious eye irritation.

Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

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 (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

Buehler Test Guinea pig: not sensitizing; OECD Test Guideline 406

## Category approach

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity****Genotoxicity in vitro**

Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

In vitro tests did not show mutagenic effects

(literature value)

## Category approach

**Genotoxicity in vivo**

Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

In vivo tests did not show mutagenic effects

(literature value)

## Category approach

**Remarks**

Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

Based on available data, the classification criteria are not met.

**Carcinogenicity****Carcinogenicity**

Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

not expected based on structure and functional groups

The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.

## Category approach

**Reproductive toxicity****Reproductive toxicity**

Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

Two-generation reproductive toxicity: Rat; Drinking water

NOAEL ((parents)): 300 mg/kg (based on body weight and day)

NOAEL (F1): 300 mg/kg (based on body weight and day); OECD Test Guideline 416

(literature value)

## Category approach

**RemarksReproductive toxicity**

Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:

Based on available data, the classification criteria are not met.

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**Teratogenicity** Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
Rat; Oral  
NOAEL: 1.000 mg/kg (based on body weight and day)  
NOAEL (pregnant female): 1.000 mg/kg (based on body weight and day); OECD Test Guideline 414 (literature value)  
Category approach

**Remarks-Teratogenicity** Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
Based on available data, the classification criteria are not met.

### STOT - single exposure

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

### STOT - repeated exposure

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

**Repeated dose toxicity** Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
Rat; Oral; 90-day  
NOAEL: 250 mg/kg (based on body weight and day); OECD Test Guideline 408 (literature value)  
Category approach

### Aspiration hazard

**Aspiration toxicity** Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
Not applicable

**Toxicological information** Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
Toxicokinetics  
The substance is metabolised and excreted.  
rapid and effective metabolism with metabolites mostly excreted in urine  
The substance is poorly absorbed via skin.  
(literature value)

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
LC50 (96 h) Brachydanio rerio (zebrafish): > 1 - 10 mg/l ; semi-static test; OECD Test Guideline 203

**Toxicity to fish - Chronic toxicity** Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
NOEC (28 d) Oncorhynchus mykiss (rainbow trout): 0,14 mg/l; mortality; flow-through test; OECD Test Guideline 204 (literature value)

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	The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Alcohols, C12-14 , ethoxylated, sulfated, sodium salts
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l ; static test; OECD Test Guideline 202
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: NOEC (21 d) Daphnia magna (Water flea): 0,27 mg/l; reproduction rate; flow-through test; OECD Test Guideline 211; (literature value) Category approach
<b>Toxicity to aquatic plants</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: EC50 (72 h) Desmodesmus subspicatus (green algae): > 10 - 100 mg/l ; Growth rate; static test; OECD Test Guideline 201  Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: NOEC (72 h) Desmodesmus subspicatus (green algae): 2 mg/l ; static test; OECD Test Guideline 201
<b>Toxicity to bacteria</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: EC10 (16 h) Pseudomonas putida: > 10.000 mg/l; Cell multiplication inhibition test; DIN 38412 The substance is not to be considered to be inhibitory to bacteria.
<b>Toxicity to soil dwelling organisms</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: NOEC (56 d) Eisenia fetida (earthworms): 750 mg/kg; reproduction rate; artificial soil; OECD Test Guideline 222 (literature value) Category approach
<b>Toxicity to terrestrial flora</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: The study is not necessary. Justification: Readily biodegradable. unlikely direct and indirect exposure of the soil compartment
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: No bioaccumulation is to be expected (log Pow <= 4).
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts: Koc: 8,1; QSAR Not expected to adsorb on soil. The substance and its relevant degradation products decompose rapidly.
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	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.

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**Results of PBT assessment** Alcohols, C12-14 , ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
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 (<=2.5 moles EO), sulfated, monoisopropanolamine salts:  
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.

**Contaminated packaging** Empty remaining contents.

**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**

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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

### 14.5 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 +10°C.

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

Remarks No information available.

## 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.

#### 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.

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**NOTIFICATION STATUS**

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	not listed (product or constituents are not listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	not listed (product or constituents are not 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)	not listed (product or constituents are not listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	not listed (product or constituents are not 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 (<=2.5 moles EO), sulfated, monoisopropanolamine salt**

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

**Safety datasheet sections which have been updated:**

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

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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

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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 (even numbered), ethoxylated (<=2.5 moles EO), sulfated, monoisopropanolamine salt**

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000005726\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000005726_EN_01.pdf)