

**MARLIPAL 24/100**

Version: 7.02

Revision Date 2017/02/07

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

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

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

|                             |  |
|-----------------------------|--|
| <b>Use</b>                  | Industrial use<br>raw material for washing and cleaning agents<br>surface-active substance |
| <b>Uses advised against</b> |  |

**1.3 Details of the supplier of the safety data sheet**

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

**1.4 Emergency telephone number**

|                                   |                           |
|-----------------------------------|---------------------------|
| <b>Emergency telephone number</b> | + 49 (0) 23 65 - 49 22 32 |
|-----------------------------------|---------------------------|

**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**

|                    |        |
|--------------------|--------|
| <b>Signal word</b> | 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)

|  |  |
|--|--|
| <b>content:</b> >= 90 - <= 100 %   | <b>component type:</b> Active ingredient |
| <b>EC-No.:</b> 932-106-6   | <b>Index-No.:</b>                        |
| <b>REACH No.:</b> Not relevant (polymer)   | <b>CAS-No.:</b> 68439-50-9               |
| <b>Substance name (REACH / CLP):</b> Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9) |  |
| <b>Classification (Regulation (EC) No 1272/2008):</b>  | 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

|                       |  |
|-----------------------|--|
| <b>General advice</b> | If you feel unwell, seek medical advice (show the label where possible).   |
| <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. |

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|                                |  |
|--------------------------------|--|
| <b>In case of skin contact</b> | Wash off immediately with plenty of water. Consult a physician if necessary.                                 |
| <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>            | 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**

|  |   |
|--|---|
| <b>Most important symptoms and effects, both acute and delayed</b> | Symptoms: No information available.<br>Risks: No information available. |
|--|---|

**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. |
|---|--------------------------------------|

**SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media**

|                                     |   |
|-------------------------------------|---|
| <b>Suitable extinguishing media</b> | Water spray, Dry powder, Foam, Carbon dioxide (CO2) |
|-------------------------------------|---|

**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. |
|---|---|

**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**

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**6.1 Personal precautions, protective equipment and emergency procedures**

|                             |                                    |
|-----------------------------|------------------------------------|
| <b>Personal precautions</b> | Use personal protective equipment. |
|-----------------------------|------------------------------------|

**6.2 Environmental precautions**

|                                  |  |
|----------------------------------|--|
| <b>Environmental precautions</b> | Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. |
|----------------------------------|--|

**6.3 Methods and materials for containment and cleaning up**

|                                |  |
|--------------------------------|--|
| <b>Methods for cleaning up</b> | Use mechanical handling equipment. The material taken up must be disposed of in accordance with regulations. |
|--------------------------------|--|

**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

|  |  |
|--|--|
| <b>Advice on safe handling</b>                         | Wear personal protective equipment.<br>Avoid contact with skin and eyes.   |
| <b>Advice on protection against fire and explosion</b> | Provide sufficient air exchange and/or exhaust in work rooms.<br>Do not spray on a naked flame or any incandescent material.       |
| <b>Fire-fighting class</b>                             | 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**

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

**7.3 Specific end use(s)**

|                        |                                    |
|------------------------|------------------------------------|
| <b>Specific use(s)</b> | This information is not available. |
|------------------------|------------------------------------|

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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

|                                 |   |
|---------------------------------|---|
| <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 combined filter (e.g. 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><br/> Material: butyl-rubber<br/> Break through time: &gt;= 480 min<br/> Layer thickness: &gt;= 0.7 mm</p> <p><b>gloves suitable for splash protection:</b><br/> Material: Nitrile rubber/nitrile latex<br/> Break through time: &gt;= 30 min<br/> Layer thickness: &gt;= 0.4 mm</p> |
| <b>Eye protection</b>           | Tightly fitting safety goggles, Safety glasses with side-shields  |
| <b>Skin and body protection</b> | Protective suit   |
| <b>Hygiene measures</b>         | 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.   |
| <b>Protective measures</b>      | Avoid contact with eyes. Wear suitable gloves and eye/face protection.  |

### ENVIRONMENTAL EXPOSURE CONTROLS

|                       |   |
|-----------------------|---|
| <b>General advice</b> | Avoid subsoil penetration.                                |
| <b>Water</b>          | 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>  | solid; 20 °C; 1,013 hPa   |
| <b>Form</b>            | pasty                     |
| <b>Colour</b>          | colourless                |
| <b>Odour</b>           | mild                      |
| <b>Odour Threshold</b> | No valid method available |
| <b>pH</b>              | 5 - 7; 20 g/l; 20 °C      |

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|   |   |
|---|---|
| <b>Melting point/range</b>                    | 21 °C   |
| <b>Boiling point/boiling range</b>            | Not applicable  |
| <b>Flash point</b>                            | 212 °C; DIN 51376                                     |
| <b>Evaporation rate</b>                       | Not relevant / not applicable<br>Justification: Solid |
| <b>Flammability (solid, gas)</b>              | not auto-flammable                                    |
| <b>Lower explosion limit</b>                  | Not applicable<br>Justification: Solid                |
| <b>Upper explosion limit</b>                  | Not applicable<br>Justification: Solid                |
| <b>Vapour pressure</b>                        | < 0.1 hPa; 20 °C                                      |
| <b>Relative vapour density</b>                | Not relevant / not applicable, Justification: Solid   |
| <b>Density</b>                                | ca.0.99 g/cm <sup>3</sup> ; 50 °C                     |
| <b>Relative density</b>                       | No data available                                     |
| <b>Water solubility</b>                       | 20 °C; completely miscible                            |
| <b>Partition coefficient: n-octanol/water</b> | Not relevant / not applicable<br>Justification: Solid |
| <b>Ignition temperature</b>                   | ca. 340 °C; DIN 51794                                 |
| <b>Auto-ignition temperature</b>              | not auto-flammable                                    |
| <b>Viscosity, dynamic</b>                     | Not applicable, Justification: Solid                  |
| <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

|                          |         |
|--------------------------|---------|
| <b>Additional advice</b> | no data |
|--------------------------|---------|

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

|             |  |
|-------------|--|
| <b>Note</b> | Stable at normal ambient temperature and pressure. |
|-------------|--|

### 10.2 Chemical stability

|             |   |
|-------------|---|
| <b>Note</b> | No decomposition if stored and applied as directed. |
|-------------|---|

### 10.3 Possibility of hazardous reactions

|                            |             |
|----------------------------|-------------|
| <b>Hazardous reactions</b> | None known. |
|----------------------------|-------------|

### 10.4 Conditions to avoid

|                            |   |
|----------------------------|---|
| <b>Conditions to avoid</b> | Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation. |
|----------------------------|---|

### 10.5 Incompatible materials to avoid

|                           |                                    |
|---------------------------|------------------------------------|
| <b>Materials to avoid</b> | Strong acids and oxidizing agents; |
|---------------------------|------------------------------------|

### 10.6 Hazardous decomposition products

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|   |  |
|---|--|
| <b>Hazardous decomposition products</b> | No decomposition if stored normally.                           |
| <b>Thermal decomposition</b>            | Hazardous decomposition products formed under fire conditions. |

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Acute toxicity

|                                  |  |
|----------------------------------|--|
| <b>Acute oral toxicity</b>       | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>LD50 Rat: > 300 - 2,000 mg/kg<br>Category approach<br>own test results/literature values<br>Harmful if swallowed.                           |
| <b>Acute inhalation toxicity</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>No data available   |
| <b>Acute dermal toxicity</b>     | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>LD50 Rabbit: > 2,000 mg/kg;<br>Category approach<br>(literature value)<br>Based on available data, the classification criteria are not met. |

##### Skin corrosion/irritation

|                        |   |
|------------------------|---|
| <b>Skin irritation</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Rabbit: not irritating<br>own test results/literature values<br>Category approach<br>Based on available data, the classification criteria are not met. |
|------------------------|---|

##### Serious eye damage/eye irritation

|                       |   |
|-----------------------|---|
| <b>Eye irritation</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Rabbit: Irreversible effects on the eye<br>own test results/literature values<br>Category approach<br>Causes serious eye damage. |
|-----------------------|---|

##### Respiratory or skin sensitisation

|                      |  |
|----------------------|--|
| <b>Sensitisation</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Maximisation Test Guinea pig: not sensitizing<br>Category approach<br>(literature value)<br>Based on available data, the classification criteria are not met. |
|----------------------|--|

##### Germ cell mutagenicity

|                              |   |
|------------------------------|---|
| <b>Genotoxicity in vitro</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>In vitro tests did not show mutagenic effects<br>Category approach<br>own test results/literature values |
| <b>Genotoxicity in vivo</b>  | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>In vivo tests did not show mutagenic effects<br>Category approach<br>(literature value)                  |

|                |  |
|----------------|--|
| <b>Remarks</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Based on available data, the classification criteria are not met. |
|----------------|--|

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**Carcinogenicity**

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

**Reproductive toxicity**

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

**STOT - single exposure**

|                |   |
|----------------|---|
| <b>Remarks</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>The substance or mixture is not classified as specific target organ toxicant, single exposure. |
|----------------|---|

**STOT - repeated exposure**

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

**Aspiration hazard**

|                            |   |
|----------------------------|---|
| <b>Aspiration toxicity</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Not applicable |
|----------------------------|---|



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|                                  |  |
|----------------------------------|--|
| <b>Toxicological information</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Toxicokinetics<br>Category approach<br>The substance is expected to be rapidly absorbed and excreted.<br>(literature value) |
|----------------------------------|--|

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

|  |   |
|--|---|
| <b>Toxicity to daphnia and other aquatic invertebrates</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>EC50 (48 h) Daphnia magna (Water flea): $> 1$ mg/l ; static test; OECD Test Guideline 202<br>own test results/literature values<br>Category approach   |
| <b>Toxicity to aquatic plants</b>                          | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>EC50 (72 h) Desmodesmus subspicatus (green algae): $> 1 - 10$ mg/l ; static test; OECD Test Guideline 201; own test results/literature values<br>Category approach<br><br>Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>EC10 (72 h) Desmodesmus subspicatus (Scenedesmus subspicatus): $> 0.1 - 1$ mg/l ; Growth rate; (literature value) |
| <b>Toxicity to bacteria</b>                                | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>EC50 activated sludge: 140 mg/l; Respiration inhibition<br>Category approach<br>(literature value)   |
| <b>Toxicity to soil dwelling organisms</b>                 | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>NOEC Eisenia foetida: 220 mg/kg; reproduction rate; artificial soil<br>Category approach<br>(literature value)   |
| <b>Toxicity to terrestrial flora</b>                       | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test Guideline 208<br>own test results/literature values<br>Category approach  |
| <b>Toxicity for other terrestrial non-mammalian fauna</b>  | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>No data available  |

#### 12.2 Persistence and degradability

|                         |  |
|-------------------------|--|
| <b>Biodegradability</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Readily biodegradable.; $> 60\%$ ; 28 d; aerobic; OECD Test Guideline 301B<br>own test results/literature values<br>Category approach |
|-------------------------|--|

#### 12.3 Bioaccumulative potential

|                        |   |
|------------------------|---|
| <b>Bioaccumulation</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Bioaccumulation is unlikely.<br>(literature value) |
|------------------------|---|

#### 12.4 Mobility in soil

|                 |  |
|-----------------|--|
| <b>Mobility</b> | Alcohols, C12-14, ethoxylated ( $\geq 2.5$ EO):<br>Koc: $> 3800$ ; calculated<br>immobile<br>strong adsorption to soil |
|-----------------|--|

#### 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 ( $\geq 2.5$  EO):  
Based on available data, the classification criteria are not met.

### 12.6 Other adverse effects

**General advice** Alcohols, C12-14, ethoxylated ( $\geq 2.5$  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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|                  |                     |
|------------------|---------------------|
| <b>IMDG</b>      | Not dangerous goods |
| <b>ICAO/IATA</b> | Not dangerous goods |

**14.5 Environmental hazards**

|                  |                           |    |
|------------------|---------------------------|----|
| <b>ADR</b>       | Environmentally hazardous | no |
| <b>RID</b>       | Environmentally hazardous | no |
| <b>ADN</b>       | Environmentally hazardous | no |
| <b>IMDG</b>      | Marine pollutant          | no |
| <b>ICAO/IATA</b> | 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**

|                                  |   |
|----------------------------------|---|
| <b>Occupational restrictions</b> | 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**

|  |   |
|--|---|
| <b>Legislation on the control of major-accident hazards involving dangerous substances</b> | Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.<br>list entry in the directive:: Not applicable |
|--|---|

|                          |   |
|--------------------------|---|
| <b>Other regulations</b> | 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   |