# One-Step Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

**Date of issue:** 08/06/2018  
**Version:** 4.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

<table>
<thead>
<tr>
<th>1.1. Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product form</strong></td>
</tr>
<tr>
<td><strong>Product name</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.2. Relevant identified uses of the substance or mixture and uses advised against</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.2.1. Relevant identified uses</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.2. Uses advised against</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.3. Details of the supplier of the safety data sheet</th>
</tr>
</thead>
</table>
| **Manufacturer:** Bisco, Inc. 1100 W Irving Park Road, Schaumburg, IL 60193 USA  
1-847-534-6000, during normal business hours  
www.bisco.com |
| **EC Representative:** Bisico France, 208, allée de la Coudoulette, 13680 Lançon de Provence, France  
Telephone: 33-4-90-42-92-92 |

<table>
<thead>
<tr>
<th>1.4. Emergency telephone number</th>
</tr>
</thead>
</table>
| **Emergency number** | CHEMTREC - 24-Hour Hazmat Emergency Communications Center  
Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted |

## SECTION 2: Hazards identification

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

- **Flammable liquids, Category 2**  
  H225
- **Skin corrosion/irritation, Category 2**  
  H315
- **Serious eye damage/eye irritation, Category 2**  
  H319
- **Skin sensitisation, Category 1**  
  H317

Full text of H statements: see section 16

### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

### Label elements

- **Hazard pictograms (CLP):**
  - GHS02
  - GHS07

- **Signal word (CLP):** Danger
- **Hazardous ingredients:** 2-Hydroxyethyl Methacrylate; BisGMA
- **Hazard statements (CLP):**
  - H225 - Highly flammable liquid and vapour
  - H315 - Causes skin irritation
  - H317 - May cause an allergic skin reaction
  - H319 - Causes serious eye irritation
- **Precautionary statements (CLP):**
  - P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P233 - Keep container tightly closed
  - P240 - Ground and bond container and receiving equipment.
  - P241 - Use explosion-proof ventilating equipment.
  - P261 - Avoid breathing vapours
  - P264 - Wash hands thoroughly after handling
  - P272 - Contaminated work clothing should not be allowed out of the workplace
  - P280 - Wear eye protection, face protection, protective gloves
  - P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see First aid measures on this label)
P332+P338 - If skin irritation persists: Get medical advice/attention.
P333+P338 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P338 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, dry sand to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents and container to a hazardous or special waste collection point, a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste, hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation, an approved waste disposal plant.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Hydroxyethyl Methacrylate</td>
<td>(CAS-No.) 868-77-9</td>
<td>10</td>
<td>Skin Irr. 2, H315 Eye Irr. 2, H319 Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 212-782-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) 607-124-00-X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BisGMA</td>
<td>(CAS-No.) 1565-94-2</td>
<td>10</td>
<td>Skin Irr. 2, H315 Eye Irr. 2, H319 Skin Sens. 1, H317</td>
</tr>
<tr>
<td>4-Dimethylaminobenzoic Acid</td>
<td>(CAS-No.) 619-84-1</td>
<td>1</td>
<td>Skin Irr. 2, H315 Eye Irr. 2, H319 STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 210-615-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proprietary</td>
<td>(CAS-No.) Proprietary</td>
<td>&lt;1</td>
<td>Flam. Liq. 2, H225 Acute Tox. 4 (Inhal), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) Proprietary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) Proprietary</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>(CAS-No.) Proprietary</td>
<td>(C &gt;= 1) STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) Proprietary</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) Proprietary</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.
SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture
Fire hazard: Highly flammable liquid and vapour.
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing mist, vapours.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing mist, vapours.
Hygiene measures: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Ground/bond container and receiving equipment.
Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Proprietary (Proprietary)</th>
<th>EU</th>
<th>IOELV TWA (mg/m³)</th>
<th>8.4 mg/m³ (Proprietary; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>IOELV TWA (ppm)</td>
<td>2 ppm (Proprietary; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)</td>
<td></td>
</tr>
<tr>
<td>EU</td>
<td>IOELV STEL (mg/m³)</td>
<td>12.6 mg/m³ (Proprietary; EU; Short time value; Indicative occupational exposure limit value)</td>
<td></td>
</tr>
<tr>
<td>EU</td>
<td>IOELV STEL (ppm)</td>
<td>3 ppm (Proprietary; EU; Short time value; Indicative occupational exposure limit value)</td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td>4.2 mg/m³ (Triethylamine; Belgium; Time-weighted average exposure limit 8 h)</td>
<td></td>
</tr>
</tbody>
</table>
### Exposure controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Hand protection:**

Protective gloves

**Eye protection:**

Safety glasses

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

---

**Proprietary (Proprietary)**

<table>
<thead>
<tr>
<th>Country</th>
<th>Limit value (ppm)</th>
<th>Limit value (mg/m³)</th>
<th>Limit value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>1 ppm Triéthylamine; Belgium; Time-weighted average exposure limit 8 h</td>
<td>12.6 mg/m³ Triéthylamine; Belgium; Short time value</td>
<td>3 ppm Triéthylamine; Belgium; Short time value</td>
</tr>
<tr>
<td>France</td>
<td>4 ppm Triéthylamine; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante</td>
<td>12.6 mg/m³ Triéthylamine; France; Short time value</td>
<td>3 ppm Triéthylamine; France; Short time value</td>
</tr>
<tr>
<td>Netherlands</td>
<td>12.6 mg/m³ Proprietary; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value</td>
<td>4.2 mg/m³ Proprietary; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value</td>
<td>3 ppm Proprietary; Netherlands; Short time value; Public occupational exposure limit value</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>8 mg/m³ Proprietary; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)</td>
<td>17 mg/m³ Proprietary; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)</td>
<td>4 ppm Proprietary; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)</td>
</tr>
<tr>
<td>USA - OSHA</td>
<td>100 mg/m³</td>
<td>25 ppm</td>
<td></td>
</tr>
</tbody>
</table>
Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Pale yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight Acetone</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>4.3 - 4.5</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>≈ 56 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>-20 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Flammable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>2.6 - 2.8 vol %</td>
</tr>
</tbody>
</table>

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Highly flammable liquid and vapour.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

2-Hydroxyethyl Methacrylate (868-77-9)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5564 mg/kg bodyweight (Rat; Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 5000 mg/kg bodyweight (Rabbit; Experimental value)</td>
</tr>
</tbody>
</table>
### 4-Dimethylaminobenzoic Acid (619-84-1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg (Rat)</td>
</tr>
</tbody>
</table>

**Proprietary (Proprietary)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 460 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value: 730 mg/kg bodyweight; Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>416 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 580 mg/kg bodyweight; Rabbit)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 4.2 mg/l/4h (Rat)</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**

- Causes skin irritation.
- pH: 4.3 - 4.5

**Serious eye damage/irritation**

- Causes serious eye irritation.
- pH: 4.3 - 4.5

**Respiratory or skin sensitisation**

- May cause an allergic skin reaction.

**Germ cell mutagenicity**

- Not classified

**Carcinogenicity**

- Not classified

**Reproductive toxicity**

- Not classified

**STOT - single exposure**

- Not classified

**STOT - repeated exposure**

- Not classified

**Aspiration hazard**

- Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecology - general**

- The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

**Acute aquatic toxicity**

- Not classified

**Chronic aquatic toxicity**

- Not classified

#### 2-Hydroxyethyl Methacrylate (868-77-9)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>227 mg/l (LC50; 96 h)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>171 mg/l (NOEC; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>380 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>836 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>345 mg/l (EbC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)</td>
</tr>
</tbody>
</table>

**Proprietary (Proprietary)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 2</td>
<td>17 mg/l (LC50; ASTM; 48 h; Ceriodaphnia dubia; Semi-static system; Fresh water; Experimental value)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**2-Hydroxyethyl Methacrylate (868-77-9)**


**4-Dimethylaminobenzoic Acid (619-84-1)**

- Biodegradability in water; no data available.

**Proprietary (Proprietary)**

**Persistence and degradability**

- Readily biodegradable in water. Low potential for adsorption in soil. Photodegradation in the air.

**Biochemical oxygen demand (BOD)**

- < 0.001 g O₂/g substance

**Chemical oxygen demand (COD)**

- 1.02 g O₂/g substance

#### 12.3. Bioaccumulative potential

**2-Hydroxyethyl Methacrylate (868-77-9)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>1.3 - 1.5 (BCF)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.55 - 0.49 (0.42; Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)</td>
</tr>
</tbody>
</table>

12/12/2017

EN (English)
One-Step Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2-Hydroxyethyl Methacrylate (868-77-9)

Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

4-Dimethylaminobenzoic Acid (619-84-1)

Bioaccumulative potential: No bioaccumulation data available.

### Proprietary (Proprietary)

**BCF fish 1**

- BCF: OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Fresh water
- Value: < 0.5

**Log Pow**

- Value: 1.45 (Experimental value; Other)

Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

**Proprietary (Proprietary)**

**Surface tension**

- Value: 0.021 N/m (20 °C)

**Log Koc**

- Value: log Koc,Other; 2.56; Calculated value

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Additional information: Flammable vapours may accumulate in the container.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

**UN-No. (ADR)**: 1090
**UN-No. (IMDG)**: Not regulated
**UN-No. (IATA)**: Not regulated
**UN-No. (ADN)**: Not regulated
**UN-No. (RID)**: Not regulated

#### 14.2. UN proper shipping name

**Proper Shipping Name (ADR)**: ACETONE
**Proper Shipping Name (IMDG)**: Not regulated
**Proper Shipping Name (IATA)**: Not regulated
**Proper Shipping Name (ADN)**: Not regulated
**Proper Shipping Name (RID)**: Not regulated
**Transport document description (ADR)**: UN 1090 ACETONE, 3, II, (D/E)

#### 14.3. Transport hazard class(es)

**ADR**

- Transport hazard class(es) (ADR): 3
- Danger labels (ADR): 3

**IMDG**

- Transport hazard class(es) (IMDG): Not regulated

**IATA**

- Transport hazard class(es) (IATA): Not regulated

**ADN**

- Transport hazard class(es) (ADN): Not regulated
**RID**

Transport hazard class(es) (RID) : Not regulated

**14.4. Packing group**

Packing group (ADR) : II
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated
Packing group (ADN) : Not regulated
Packing group (RID) : Not regulated

**14.5. Environmental hazards**

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

**14.6. Special precautions for user**

- **Overland transport**
  
  Classification code (ADR) : F1
  Limited quantities (ADR) : 1I
  Excepted quantities (ADR) : E2
  Packing instructions (ADR) : P001, IBC02, R001
  Mixed packing provisions (ADR) : MP19
  Portable tank and bulk container instructions (ADR) : T4
  Portable tank and bulk container special provisions (ADR) : TP1
  Tank code (ADR) : LGBF
  Vehicle for tank carriage : FL
  Transport category (ADR) : 2
  Special provisions for carriage - Operation (ADR) : S2, S20
  Hazard identification number (Kemler No.) : 33
  Orange plates : 

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
15.1.2. National regulations

Germany
VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark
Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Revision date: 07/17/2018
Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>H-</th>
<th>EUH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Dermal)</td>
<td>Acute toxicity (dermal), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation, Category 1A</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitisation, Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.