SECTION 1: Identification

1.1 Product identifier
Trade name: Cleansmart Rust Remover

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

1.3 Details of the supplier of the safety data sheet
Cleansmart Technologies
P. O. Box 2126
Loveland, Co. 80539
877-701-5271

Competent person responsible for the SDS: Robert Blahnik

1.4 Emergency telephone number
Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500
24 hour emergency telephone number.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification acc. to OSHA &quot;Hazard Communication Standard&quot; (29 CFR 1910.1200)</th>
<th>Hazard class and category</th>
<th>Hazard statement code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.2 skin corrosion/irritation</td>
<td>Cat. 2 (Skin Irrit. 2)</td>
<td>H315</td>
</tr>
<tr>
<td>A.3 serious eye damage/eye irritation</td>
<td>Cat. 1 (Eye Dam. 1)</td>
<td>H318</td>
</tr>
<tr>
<td>A.4S skin sensitization</td>
<td>Cat. 1A (Skin Sens. 1A)</td>
<td>H317</td>
</tr>
</tbody>
</table>

Remarks
For full text of H-phrases: see SECTION 16.

Hazards not otherwise classified
Contains d-limonene. May produce an allergic reaction.
May be harmful if swallowed (GHS category 5: acutely toxic - oral).
Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and chronic).

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word: danger

Pictograms: GHS05, GHS07

Hazard statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Precautionary statements
Precautionary statements - prevention
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/eye protection/face protection.
Safety Data Sheet  
acc. to OSHA, Appendix D to § 1910.1200

Cleansmart Rust Remover

Precautionary statements - response
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.

Precautionary statements - disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous ingredients for labelling  
d-limonene, ammonium bifluoride

2.3 Other hazards
There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances
not relevant (mixture)

3.2 Mixtures
Description of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>Wt%</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium bifluoride</td>
<td>CAS No 1341-49-7</td>
<td>1 - &lt; 5</td>
<td>A.1O Acute Tox. 3</td>
<td>H301 H314 H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A.2 Skin Corr. 1B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A.3 Eye Dam. 1</td>
<td></td>
</tr>
<tr>
<td>polyethoxylated tallow amine</td>
<td>CAS No 61791-26-2</td>
<td>1 - &lt; 5</td>
<td>A.1O Acute Tox. 4</td>
<td>H302 H312</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A.1D Acute Tox. 4</td>
<td></td>
</tr>
<tr>
<td>disodium cocoamphodipropionate</td>
<td>CAS No 68604-71-7</td>
<td>&lt; 1</td>
<td>B.6 Flam. Liq. 4</td>
<td>H227</td>
</tr>
<tr>
<td>dipropylene glycol monomethyl ether</td>
<td>CAS No 34590-94-8</td>
<td>&lt; 1</td>
<td>B.6 Flam. Liq. 4</td>
<td>H227</td>
</tr>
<tr>
<td>d-limonene</td>
<td>CAS No 5989-27-5</td>
<td>&lt; 1</td>
<td>B.6 Flam. Liq. 3</td>
<td>H226 H312 H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A.2 Skin Irrit. 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A.4S Skin Sens. 1A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A.10 Asp. Tox. 1</td>
<td></td>
</tr>
</tbody>
</table>

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.
SECTION 4: First-aid measures

4.1 General notes
Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation
In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Following eye contact
Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion
Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media
- water spray,
- alcohol resistant foam,
- BC-powder,
- carbon dioxide (CO2)

Unsuitable extinguishing media
- water jet

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products
- nitrogen oxides (NOx)

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Remove persons to safety.

For emergency responders
Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up
Advises on how to contain a spill
Covering of drains.
Advices on how to clean up a spill
Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques
Use of adsorbent materials.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Recommendations
Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.
Handling of incompatible substances or mixtures
Keep away from caustic solutions
Advice on general occupational hygiene
Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities
Managing of associated risks
Incompatible substances or mixtures
Observe compatible storage of chemicals.
Control of the effects
Protect against external exposure, such as frost

7.3 Specific end use(s)
See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
National limit values
Occupational exposure limit values (Workplace Exposure Limits)

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of agent</th>
<th>CAS No</th>
<th>Identifier</th>
<th>TWA [ppm]</th>
<th>TWA [mg/m³]</th>
<th>STEL [ppm]</th>
<th>STEL [mg/m³]</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>dipropylene glycol methyl ether</td>
<td>34590-94-8</td>
<td>PEL</td>
<td>100</td>
<td>600</td>
<td></td>
<td></td>
<td>29 CFR OSHA</td>
</tr>
</tbody>
</table>

Notation
STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.
TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average.
Relevant DNELs/DMELs/PNECs and other threshold levels
No data available.

8.2 Exposure controls

Appropriate engineering controls
General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection
Wear eye/face protection.

Skin protection
• hand protection
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state liquid
Color colorless to pale amber
Odor sharp

Other physical and chemical parameters
pH (value) 2 - 4 (25 °C)
Melting point/freezing point not determined
Initial boiling point and boiling range 100 °C
Flash point not determined (closed cup)
Evaporation rate not determined
Flammability (solid, gas) not relevant (fluid)
Explosive limits not determined
Vapor pressure 31.69 hPa at 25 °C
Density 1.013 g/ml
Solubility(ies) miscible in any proportion
Water solubility
SECTION 10: Stability and reactivity

10.1 Reactivity
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability
See below "Conditions to avoid".

10.3 Possibility of hazardous reactions
No known hazardous reactions.

10.4 Conditions to avoid
There are no specific conditions known which have to be avoided.

10.5 Incompatible materials
There is no additional information.

10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Test data are not available for the complete mixture.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity
Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>ATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium bifluoride</td>
<td>1341-49-7</td>
<td>oral</td>
<td>130 mg/kg</td>
</tr>
<tr>
<td>polyethoxylated tallow amine</td>
<td>61791-26-2</td>
<td>oral</td>
<td>1,437 mg/kg</td>
</tr>
<tr>
<td>polyethoxylated tallow amine</td>
<td>61791-26-2</td>
<td>dermal</td>
<td>&gt;1,260 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.
Safety Data Sheet
acc. to OSHA, Appendix D to § 1910.1200

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United States
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**Serious eye damage/eye irritation**
Causes serious eye damage.

**Respiratory or skin sensitization**
May cause an allergic skin reaction.

**Summary of evaluation of the CMR properties**
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

**Carcinogenicity**
- National Toxicology Program (United States): none of the ingredients are listed
- IARC Monographs: none of the ingredients are listed

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>wt%</th>
<th>Classification</th>
<th>Remarks</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>d-limonene</td>
<td>d-Limonene</td>
<td>5989-27-5</td>
<td>0.49</td>
<td>3</td>
<td></td>
<td>Volume 73</td>
</tr>
</tbody>
</table>

**Legend**

3 Not classifiable as to carcinogenicity in humans.

**Specific target organ toxicity (STOT)**
Shall not be classified as a specific target organ toxicant.

**Aspiration hazard**
Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information**

12.1 **Toxicity**
Very toxic to aquatic life with long lasting effects.

**Aquatic toxicity (acute)**
Shall not be classified as hazardous to the aquatic environment.

**Aquatic toxicity (acute) of components of the mixture**

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium bifluoride</td>
<td>1341-49-7</td>
<td>LC50</td>
<td>421.4 mg/l</td>
<td>fish</td>
<td>96 h</td>
</tr>
<tr>
<td>polyethoxylated tallow amine</td>
<td>61791-26-2</td>
<td>LC50</td>
<td>0.19 mg/l</td>
<td>fish</td>
<td>96 h</td>
</tr>
<tr>
<td>polyethoxylated tallow amine</td>
<td>61791-26-2</td>
<td>LC50</td>
<td>0.99 mg/l</td>
<td>fish</td>
<td>96 h</td>
</tr>
<tr>
<td>polyethoxylated tallow amine</td>
<td>61791-26-2</td>
<td>EC50</td>
<td>0.008 mg/l</td>
<td>algae</td>
<td>48 h</td>
</tr>
<tr>
<td>polyethoxylated tallow amine</td>
<td>61791-26-2</td>
<td>EC50</td>
<td>0.47 mg/l</td>
<td>daphnia</td>
<td>48 h</td>
</tr>
<tr>
<td>dipropylene glycol monomethyl ether</td>
<td>34590-94-8</td>
<td>LC50</td>
<td>&gt;150 mg/l</td>
<td>fish</td>
<td>72 h</td>
</tr>
<tr>
<td>dipropylene glycol monomethyl ether</td>
<td>34590-94-8</td>
<td>ErC50</td>
<td>&gt;969 mg/l</td>
<td>algae</td>
<td>72 h</td>
</tr>
<tr>
<td>d-limonene</td>
<td>5989-27-5</td>
<td>LC50</td>
<td>720 µg/l</td>
<td>fish</td>
<td>96 h</td>
</tr>
<tr>
<td>d-limonene</td>
<td>5989-27-5</td>
<td>EC50</td>
<td>688 µg/l</td>
<td>fish</td>
<td>96 h</td>
</tr>
</tbody>
</table>
Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>d-limonene</td>
<td>5989-27-5</td>
<td>EC50</td>
<td>0.85 mg/l</td>
<td>aquatic invertebrates</td>
<td>24 h</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

Degradability of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Process</th>
<th>Degradation rate</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>dipropylene glycol mono-methyl ether</td>
<td>34590-94-8</td>
<td>oxygen depletion</td>
<td>75 %</td>
<td>10 d</td>
</tr>
<tr>
<td>dipropylene glycol mono-methyl ether</td>
<td>34590-94-8</td>
<td>DOC removal</td>
<td>96 %</td>
<td>28 d</td>
</tr>
<tr>
<td>dipropylene glycol mono-methyl ether</td>
<td>34590-94-8</td>
<td>carbon dioxide generation</td>
<td>76 %</td>
<td>28 d</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>BCF</th>
<th>Log KOW</th>
<th>BOD5/COD</th>
</tr>
</thead>
<tbody>
<tr>
<td>dipropylene glycol mono-methyl ether</td>
<td>34590-94-8</td>
<td>0.0061</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d-limonene</td>
<td>5989-27-5</td>
<td>4.38</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

13.1 Waste treatment methods

Sewage disposal-relevant information

Data not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
SECTION 14: Transport information

14.1 UN number (not subject to transport regulations)
14.2 UN proper shipping name not relevant
14.3 Transport hazard class(es) Class -
14.4 Packing group not relevant
14.5 Environmental hazards none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user
There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question
National regulations (United States)
Toxic Substance Control Act (TSCA) all ingredients are listed or exempt from listing
SARA TITLE III (Superfund Amendment and Reauthorization Act)
List of Extremely Hazardous Substances (40 CFR 355) (EPCRA Section 302 and 304) none of the ingredients are listed
Specific Toxic Chemical Listings (40 CFR 372) (EPCRA Section 313) none of the ingredients are listed

Industry or sector specific available guidance(s)
NPCA-HMIS® III
Hazardous Materials Identification System (American Coatings Association)

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic</td>
<td>/</td>
<td>None.</td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
<td>Major injury likely unless prompt action is taken and medical treatment is given.</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
<td>Material that will not burn under typical fire conditions.</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>0</td>
<td>Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive.</td>
</tr>
<tr>
<td>Personal protective equipment</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

NFPA® 704
Cleansmart Rust Remover

<table>
<thead>
<tr>
<th>Category</th>
<th>Degree of hazard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1</td>
<td>Material that must be preheated before ignition can occur.</td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
<td>Material that, under emergency conditions, can cause serious or permanent injury.</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>Material that is normally stable, even under fire conditions.</td>
</tr>
</tbody>
</table>

**Right to Know Hazardous Substance List**

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Remarks</th>
<th>Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium bifluoride</td>
<td>1341-49-7</td>
<td></td>
<td>CO</td>
</tr>
<tr>
<td>DPM</td>
<td>34590-94-8</td>
<td></td>
<td>F2</td>
</tr>
</tbody>
</table>

**Legend**

- CO Corrosive.
- F2 Flammable - Second Degree.

**Proposition 65 List of chemicals**

- none of the ingredients are listed

**Relevant European Union (EU) safety, health and environmental provisions**

<table>
<thead>
<tr>
<th>Hazard class</th>
<th>Category</th>
<th>Hazard class and category</th>
</tr>
</thead>
<tbody>
<tr>
<td>skin corrosion/irritation</td>
<td>1B</td>
<td>(Skin Corr. 1B)</td>
</tr>
<tr>
<td>serious eye damage/eye irritation</td>
<td>1</td>
<td>(Eye Dam. 1)</td>
</tr>
<tr>
<td>hazardous to the aquatic environment - acute hazard</td>
<td>1</td>
<td>(Aquatic Acute 1)</td>
</tr>
<tr>
<td>hazardous to the aquatic environment - chronic hazard</td>
<td>3</td>
<td>(Aquatic Chronic 3)</td>
</tr>
</tbody>
</table>

**SECTION 16: Other information, including date of preparation or last revision**

**16.2 Abbreviations and acronyms**

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox.</td>
<td>acute toxicity</td>
</tr>
<tr>
<td>Asp. Tox.</td>
<td>aspiration hazard</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>BioConcentration Factor</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical Oxygen Demand</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or toxic for Reproduction</td>
</tr>
<tr>
<td>COD</td>
<td>chemical oxygen demand</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>seriously damaging to the eye</td>
</tr>
<tr>
<td>Eye Irrit.</td>
<td>irritant to the eye</td>
</tr>
</tbody>
</table>
Safety Data Sheet
acc. to OSHA, Appendix D to § 1910.1200

Cleansmart Rust Remover

Abbr. | Descriptions of used abbreviations
--- | ---
Flam. Liq. | flammable liquid
GHS | “Globally Harmonized System of Classification and Labelling of Chemicals” developed by the United Nations
HMIS | Hazardous Materials Identification System
IARC Monographs | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
log KOW | n-octanol/water
MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of *Marine Pollutant*)
OSHA | Occupational Safety and Health Administration (United States)
PBT | Persistent, Bioaccumulative and Toxic
PEL | permissible exposure limit
PNEC | Predicted No-Effect Concentration
ppm | parts per million
Skin Corr. | corrosive to skin
Skin Irrit. | irritant to skin
Skin Sens. | skin sensitization
STEL | short-term exposure limit
TWA | time-weighted average
vPvB | very Persistent and very Bioaccumulative

16.3 Key literature references and sources for data

16.4 Classification procedure
Physical and chemical properties: The classification is based on tested mixture.
Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

16.5 List of relevant phrases (code and full text as stated in chapter 2 and 3)

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>flammable liquid and vapor</td>
</tr>
<tr>
<td>H227</td>
<td>combustible liquid</td>
</tr>
<tr>
<td>H301</td>
<td>toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>harmful if swallowed</td>
</tr>
<tr>
<td>H304</td>
<td>may be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H312</td>
<td>harmful 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>
</tbody>
</table>
16.7 **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.