

## Details Manufacturing Pure Cut

Version number: GHS 1.0

Date of compilation: 2017-07-06

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name

Details Manufacturing Pure Cut

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

Relevant identified uses

Vehicle polishing compound

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

Details Manufacturing & Distributing  
504 E Lincoln Way Ames, IA 50010  
515.233.6555

Luke.Stagg@detailsmfg.com Josh.Stagg@detailsmfg.com

#### 1.4 Emergency telephone number

Emergency information service

USA 1.800.535.5053, INTL 1.352.323.3500  
24 hour emergency number

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

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

| Section | Hazard class          | Category | Hazard class and category | Hazard statement |
|---------|-----------------------|----------|---------------------------|------------------|
| A.4S    | skin sensitization    | 1        | Skin Sens. 1              | H317             |
| A.7     | reproductive toxicity | 2        | Repr. 2                   | H361f            |
| A.10    | aspiration hazard     | 1        | Asp. Tox. 1               | H304             |

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

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

- Signal word danger

- Pictograms

GHS07, GHS08



- Hazard statements

H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H361f Suspected of damaging fertility.

- Precautionary statements

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P321 Specific treatment (see on this label).  
P331 Do NOT induce vomiting.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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### - Precautionary statements

- P362+P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling octamethylcyclotetrasiloxane, Distillates (petroleum), hydrotreated light, CMIT/MIT mixture

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Hazards not otherwise classified

May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and chronic).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

| Name of substance                            | Identifier           | Wt%       | Classification acc. to GHS  |
|--|----------------------|-----------|---|
| Distillates (petroleum), hydro-treated light | CAS No<br>64742-47-8 | 10 - < 25 | Flam. Liq. 4 / H227<br>Acute Tox. 3 / H331<br>Asp. Tox. 1 / H304  |
| octamethylcyclotetrasiloxane                 | CAS No<br>556-67-2   | 5 - < 10  | Flam. Liq. 3 / H226<br>Repr. 2 / H361f  |
| decamethylcyclopentasiloxane                 | CAS No<br>541-02-6   | 1 - < 5   | Flam. Liq. 4 / H227   |
| Alcohols, C6-10, ethoxylatedpropoxylated     | CAS No<br>68603-25-8 | 1 - < 5   | Skin Irrit. 2 / H315<br>Eye Irrit. 2A / H319  |
| CMIT/MIT mixture                             | CAS No<br>55965-84-9 | < 1       | Acute Tox. 3 / H301<br>Acute Tox. 3 / H311<br>Acute Tox. 3 / H331<br>Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>Skin Sens. 1 / H317 |

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 Description of first-aid measures

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

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

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### Following skin contact

Wash with plenty of soap and water.

### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### Following ingestion

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

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

Symptoms and effects are not known to date.

## 4.3 Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

Water jet

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 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 of it.

### 6.3 Methods and material for containment and cleaning up

#### Advices 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.

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Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 9. Incompatible materials: see section 10. Disposal considerations: see section 13.

## 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.

Advice on general occupational hygiene

Wash hands after use. Do not 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

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

| Occupational exposure limit values (Workplace Exposure Limits) |               |           |            |           |                          |            |                           |                  |
|--|---------------|-----------|------------|-----------|--------------------------|------------|---------------------------|------------------|
| Country  | Name of agent | CAS No    | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Source           |
| US   | alpha-alumina | 1344-28-1 | PEL        |           | 15                       |            |                           | 29 CFR 1910.1000 |
| US   | alpha-alumina | 1344-28-1 | PEL        |           | 5                        |            |                           | 29 CFR 1910.1000 |
| US   | glycerol      | 56-81-5   | PEL        |           | 15                       |            |                           | 29 CFR 1910.1000 |
| US   | glycerol      | 56-81-5   | PEL        |           | 5                        |            |                           | 29 CFR 1910.1000 |

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 of components of the mixture |          |           |                      |                                    |                   |                            |
|---|----------|-----------|----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No   | End-point | Threshold level      | Protection goal, route of exposure | Used in           | Exposure time              |
| octamethylcyclotetrasiloxane                | 556-67-2 | DNEL      | 73 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| octamethylcyclotetrasiloxane                | 556-67-2 | DNEL      | 73 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |



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acc. to 29 CFR 1910.1200 App D

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| Relevant DNELs of components of the mixture |          |           |                        |                                    |                   |                            |
|---|----------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No   | End-point | Threshold level        | Protection goal, route of exposure | Used in           | Exposure time              |
| octamethylcyclotetrasiloxane                | 556-67-2 | DNEL      | 73 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - local effects    |
| octamethylcyclotetrasiloxane                | 556-67-2 | DNEL      | 73 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | acute - local effects      |
| decamethylcyclopentasiloxane                | 541-02-6 | DNEL      | 24.2 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects    |
| decamethylcyclopentasiloxane                | 541-02-6 | DNEL      | 97.3 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture |          |           |                 |                       |                              |                              |
|---|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No   | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 10 mg/l         | microorganisms        | sewage treatment plant (STP) | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 0.059 mg/kg     | pelagic organisms     | sediment                     | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 1.7 mg/kg       | (top) predators       | water                        | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 0.44 µg/l       | aquatic organisms     | freshwater                   | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 0.044 µg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 10 mg/l         | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 3 mg/kg         | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 0.3 mg/kg       | aquatic organisms     | marine sediment              | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 0.59 mg/kg      | benthic organisms     | sediment                     | short-term (single instance) |
| octamethylcyclotetrasiloxane                | 556-67-2 | PNEC      | 0.16 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |
| decamethylcyclopentasiloxane                | 541-02-6 | PNEC      | 10 mg/l         | microorganisms        | sewage treatment plant (STP) | short-term (single instance) |
| decamethylcyclopentasiloxane                | 541-02-6 | PNEC      | 11 mg/kg        | benthic organisms     | sediment                     | short-term (single instance) |
| decamethylcyclopentasiloxane                | 541-02-6 | PNEC      | 13 mg/kg        | (top) predators       | water                        | short-term (single instance) |
| decamethylcyclopentasiloxane                | 541-02-6 | PNEC      | 3.77 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |
| decamethylcyclopentasiloxane                | 541-02-6 | PNEC      | 1.1 mg/kg       | pelagic organisms     | sediment                     | short-term (single instance) |

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### 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 (viscous) |
| Color          | white            |
| Odor           | characteristic   |

#### Other safety parameters

|   |                                       |
|---|---------------------------------------|
| pH (value)                              | not determined                        |
| Melting point/freezing point            | not determined                        |
| Initial boiling point and boiling range | 100 °C                                |
| Flash point                             | >100 °C at 101.3 kPa >212 °F at 1 atm |
| Evaporation rate                        | not determined                        |
| Flammability (solid, gas)               | not relevant (fluid)                  |

#### Explosive limits

|                               |          |
|-------------------------------|----------|
| - Lower explosion limit (LEL) | 2.7 vol% |
| - Upper explosion limit (UEL) | 19 vol%  |

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|                  |                                   |
|------------------|-----------------------------------|
| Vapor pressure   | 3.7 kPa at 37.8 °C                |
| Density          | 1.277 - 1.321 g/ml                |
| Vapor density    | this information is not available |
| Relative density | 1.05 (water = 1)                  |
| Solubility(ies)  | not determined                    |

## Partition coefficient

|                             |                                   |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature   | 370 °C                            |
| Viscosity                   | not determined                    |
| Explosive properties        | none                              |
| Oxidizing properties        | none                              |

## 9.2 Other information

|  |   |
|--|---|
| Temperature class (USA, acc. to NEC 500) | T2 (maximum permissible surface temperature on the equipment: 300 °C) |
|--|---|

## 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

Oxidizers

## 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.



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**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.

GHS of the United Nations, annex 4: May be harmful if inhaled.

| Acute toxicity estimate (ATE) of components of the mixture |            |                   |              |
|--|------------|-------------------|--------------|
| Name of substance  | CAS No     | Exposure route    | ATE          |
| Distillates (petroleum), hydrotreated light                | 64742-47-8 | inhalation: vapor | 5.28 mg/l/4h |
| CMIT/MIT mixture   | 55965-84-9 | oral              | 100 mg/kg    |
| CMIT/MIT mixture   | 55965-84-9 | dermal            | 300 mg/kg    |
| CMIT/MIT mixture   | 55965-84-9 | inhalation: vapor | 3 mg/l/4h    |

**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

**Serious eye damage/eye irritation**

Shall not be classified as seriously damaging to the eye or eye irritant.

**Respiratory or skin sensitization**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Suspected of damaging fertility.

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity - repeated exposure**

The classification criteria for this hazard class are not met. Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

May be fatal if swallowed and enters airways.



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## SECTION 12: Ecological information

## 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components of the mixture |            |          |             |                       |               |
|---|------------|----------|-------------|-----------------------|---------------|
| Name of substance                                     | CAS No     | Endpoint | Value       | Species               | Exposure time |
| Distillates (petroleum), hydrotreated light           | 64742-47-8 | LL50     | 5 mg/l      | fish                  | 96 h          |
| Distillates (petroleum), hydrotreated light           | 64742-47-8 | EL50     | 1.4 mg/l    | aquatic invertebrates | 48 h          |
| octamethylcyclotetrasiloxane                          | 556-67-2   | LC50     | >22 µg/l    | fish                  | 96 h          |
| octamethylcyclotetrasiloxane                          | 556-67-2   | EC50     | >1,000 mg/l | aquatic invertebrates | 96 h          |
| decamethylcyclopentasiloxane                          | 541-02-6   | LC50     | >16 µg/l    | fish                  | 96 h          |
| decamethylcyclopentasiloxane                          | 541-02-6   | EC50     | >2.9 µg/l   | aquatic invertebrates | 48 h          |
| Alcohols,C6-10,ethoxylatedpropoxylated                | 68603-25-8 | LC50     | 8.7 mg/l    | rainbow trout         | 96 h          |
| Alcohols,C6-10,ethoxylatedpropoxylated                | 68603-25-8 | EC50     | 12.61 mg/l  | daphnia               | 48 h          |

| Aquatic toxicity (chronic) of components of the mixture |            |          |           |                       |               |
|---|------------|----------|-----------|-----------------------|---------------|
| Name of substance                                       | CAS No     | Endpoint | Value     | Species               | Exposure time |
| Distillates (petroleum), hydrotreated light             | 64742-47-8 | LL50     | 17 mg/l   | fish                  | 24 h          |
| Distillates (petroleum), hydrotreated light             | 64742-47-8 | EL50     | 4.6 mg/l  | aquatic invertebrates | 24 h          |
| octamethylcyclotetrasiloxane                            | 556-67-2   | LC50     | 10 µg/l   | fish                  | 14 d          |
| octamethylcyclotetrasiloxane                            | 556-67-2   | EC50     | >500 mg/l | aquatic invertebrates | 24 h          |
| decamethylcyclopentasiloxane                            | 541-02-6   | LC50     | >16 µg/l  | fish                  | 14 d          |
| decamethylcyclopentasiloxane                            | 541-02-6   | EC50     | >15 µg/l  | aquatic invertebrates | 21 d          |

## 12.2 Persistence and degradability

Data are not available.



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- 12.3 Bioaccumulative potential**  
Data are not available.
- 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.

**SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods**  
Sewage disposal-relevant information  
Do 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** 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.

**Information for each of the UN Model Regulations**

Transport of dangerous goods by road or rail (49 CFR US DOT)  
Not subject to transport regulations.

**International Maritime Dangerous Goods Code (IMDG)**  
Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR)**  
Not subject to ICAO-IATA.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations specific for the product in question****National regulations (United States)****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

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)**

- Section 102(A) Hazardous Substances (40 CFR 302.4)  
none of the ingredients are listed

## Clean Air Act

none of the ingredients are listed

**California Environmental Protection Agency (Cal/EPA): Proposition 65 Chemicals known to the State to cause cancer or reproductive toxicity**

none of the ingredients are listed

**Industry or sector specific available guidance(s)****NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

| Category                      | Rating | Description  |
|-------------------------------|--------|--|
| Chronic                       | *      | chronic (long-term) health effects may result from repeated overexposure   |
| Health                        | 2      | temporary or minor injury may occur  |
| Flammability                  | 1      | material that must be preheated before ignition can occur  |
| Physical hazard               | 1      | material that is normally stable but can become unstable (self-react) at high temperatures and pressures. Material may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors |
| Personal protective equipment | -      |  |

**NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of hazard | Description  |
|----------------|------------------|--|
| Flammability   | 1                | material that must be preheated before ignition can occur  |
| Health         | 2                | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability    | 0                | material that is normally stable, even under fire conditions                                     |
| Special hazard |                  |  |

**15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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

| Abbr.            | Descriptions of used abbreviations  |
|------------------|---|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits) |
| 49 CFR US DOT    | 49 CFR § 40 U.S. Department of Transportation   |
| Acute Tox.       | Acute toxicity  |
| Asp. Tox.        | Aspiration hazard   |
| ATE              | Acute Toxicity Estimate   |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| DGR              | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL             | Derived No-Effect Level   |
| Eye Dam.         | Seriously damaging to the eye   |
| Eye Irrit.       | Irritant to the eye   |
| Flam. Liq.       | Flammable liquid  |
| GHS              | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                       |
| IATA             | International Air Transport Association   |
| IATA/DGR         | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO             | International Civil Aviation Organization   |
| IMDG             | International Maritime Dangerous Goods Code   |
| MARPOL           | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| NPCA-HMIS® III   | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition                                   |
| 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   |
| Repr.            | Reproductive toxicity   |
| RTECS            | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)   |
| 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  |



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### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### 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).

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

| Code  | Text  |
|-------|---|
| H226  | Flammable liquid and vapor.                   |
| H227  | Combustible liquid.                           |
| H301  | Toxic if swallowed.                           |
| H304  | May be fatal if swallowed and enters airways. |
| H311  | Toxic in contact with skin.                   |
| H314  | Causes severe skin burns and eye damage.      |
| H315  | Causes skin irritation.                       |
| H317  | May cause an allergic skin reaction.          |
| H318  | Causes serious eye damage.                    |
| H319  | Causes serious eye irritation.                |
| H331  | Toxic if inhaled.                             |
| H361f | Suspected of damaging fertility.              |

### Disclaimer

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