

## Orange Solvent / 200ml

Version number: GHS 1.1

Date of compilation: 2017-12-07

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

**1.1 Product identifier**

|                             |                               |
|-----------------------------|-------------------------------|
| Trade name                  | <b>Orange Solvent / 200ml</b> |
| Registration number (REACH) | not relevant (mixture)        |

**Other means of identification**

|                |         |
|----------------|---------|
| Article number | 554 201 |
|----------------|---------|

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

|                          |                |
|--------------------------|----------------|
| Relevant identified uses | cleaning agent |
|--------------------------|----------------|

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

Häger & Werken GmbH & Co. KG  
Ackerstraße 1  
47269 Duisburg  
Germany

Telephone: + 49 203 / 99 26 90  
Telefax: + 49 203 / 29 92 83  
e-mail: [info@hagerwerken.de](mailto:info@hagerwerken.de)  
Website: [www.hagerwerken.de](http://www.hagerwerken.de)

|  |  |
|--|--|
| Competent person responsible for the safety data sheet | Abteilung Produktsicherheit                                  |
| e-mail (competent person)                              | <a href="mailto:info@hagerwerken.de">info@hagerwerken.de</a> |

**1.4 Emergency telephone number**

|                               |  |
|-------------------------------|--|
| Emergency information service | + 49 203 / 99 26 90<br>This number is only available during the following of-<br>fice hours: Mon-Fri 09:00 - 17:00 |
|-------------------------------|--|

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

| Section | Hazard class | Cat-egory | Hazard class and category | Hazard state-ment |
|---------|--------------|-----------|---------------------------|-------------------|
| 2.3     | aerosols     | Cat. 1    | (Aerosol 1)               | H222,H229         |

**Remarks**

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

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

**Signal word**                      **Danger**

**Pictograms**

GHS02



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### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurized container: may burst if heated.

### Precautionary statements

#### **Precautionary statements - general**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

#### **Precautionary statements - prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.

#### **Precautionary statements - storage**

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

### **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**

| Name of substance | Identifier                                   | wt%       | Classification acc. to 1272/2008/EC       | Pictograms  |
|-------------------|--|-----------|---|---|
| ethanol           | CAS No<br>64-17-5<br><br>EC No<br>200-578-6  | 25 – < 50 | Flam. Liq. 2 / H225                       |  |
| butane            | CAS No<br>106-97-8<br><br>EC No<br>203-448-7 | 25 – < 50 | Flam. Gas 1 / H220<br>Press. Gas L / H280 |  |
| propane           | CAS No<br>74-98-6<br><br>EC No<br>200-827-9  | 5 – < 10  | Flam. Gas 1 / H220<br>Press. Gas L / H280 |  |
| isobutane         | CAS No<br>75-28-5<br><br>EC No<br>200-857-2  | 1 – < 5   | Flam. Gas 1 / H220<br>Press. Gas C / H280 |  |

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For full text of abbreviations: see SECTION 16.

### 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.

##### 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: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

water spray, BC-powder

##### 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.

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### 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 vapours/dust/spray/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.

##### 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 8. 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 feed-stuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Managing of associated risks

##### • Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

##### Incompatible substances or mixtures

Observe hints for combined storage.

##### Consideration of other advice

##### • Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### National limit values

##### Occupational exposure limit values (Workplace Exposure Limits)

| Coun-<br>try | Name of agent | CAS No   | Identifier | TWA<br>[ppm] | TWA<br>[mg/m <sup>3</sup> ] | STEL<br>[ppm] | STEL<br>[mg/m <sup>3</sup> ] | Source   |
|--------------|---------------|----------|------------|--------------|-----------------------------|---------------|------------------------------|----------|
| DE           | butane        | 106-97-8 | AGW        | 1.000        | 2.400                       | 4.000         | 9.600                        | TRGS 900 |
| DE           | ethanol       | 64-17-5  | AGW        | 500          | 960                         | 1.000         | 1.920                        | TRGS 900 |
| DE           | ethanol       | 64-17-5  | MAK        | 200          | 380                         | 800           | 1.520                        | DFG      |
| DE           | propane       | 74-98-6  | AGW        | 1.000        | 1.800                       | 4.000         | 7.200                        | TRGS 900 |
| DE           | isobutane     | 75-28-5  | AGW        | 1.000        | 2.400                       | 4.000         | 9.600                        | TRGS 900 |

##### 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

##### • relevant DNELs of components of the mixture

| Name of sub-<br>stance | CAS<br>No | End-<br>point | Threshold<br>level      | Protection goal,<br>route of expos-<br>ure | Used in                | Exposure time                   |
|------------------------|-----------|---------------|-------------------------|--|------------------------|---------------------------------|
| ethanol                | 64-17-5   | DNEL          | 1.900 mg/m <sup>3</sup> | human, inhalatory                          | worker (in-<br>dustry) | acute - local effects           |
| ethanol                | 64-17-5   | DNEL          | 343 mg/kg               | human, dermal                              | worker (in-<br>dustry) | chronic - systemic ef-<br>fects |
| ethanol                | 64-17-5   | DNEL          | 950 mg/m <sup>3</sup>   | human, inhalatory                          | worker (in-<br>dustry) | chronic - systemic ef-<br>fects |

##### • relevant PNECs of components of the mixture

| Name of sub-<br>stance | CAS<br>No | End-<br>point | Threshold<br>level | Organism          | Environ-<br>mental com-<br>partment  | Exposure time                     |
|------------------------|-----------|---------------|--------------------|-------------------|--------------------------------------|-----------------------------------|
| ethanol                | 64-17-5   | PNEC          | 580 mg/l           | aquatic organisms | sewage treat-<br>ment plant<br>(STP) | short-term (single in-<br>stance) |
| ethanol                | 64-17-5   | PNEC          | 2,75 mg/l          | aquatic organisms | water                                | intermittent release              |

#### 8.2 Exposure controls

##### Appropriate engineering controls

General ventilation.

##### Individual protection measures (personal protective equipment)

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

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### Eye/face protection

Wear eye/face protection.

### Skin protection

#### • hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. 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 | aerosol (spray aerosol) |
| Colour         | colourless - clear      |
| Odour          | characteristic          |

#### Other physical and chemical parameters

|   |   |
|---|---|
| pH (value)                              |   |
| Melting point/freezing point            | not determined                                    |
| Initial boiling point and boiling range | -161,5 °C at 1.013 hPa                            |
| Flash point Evaporation                 | -80 °C (im geschlossenen Tiegel)                  |
| rate Flammability (solid, gas)          | not determined                                    |
| Explosive limits                        | flammable aerosol in accordance with GHS criteria |

|                               |  |
|-------------------------------|--|
| • lower explosion limit (LEL) | 2,5 vol%                                   |
| • upper explosion limit (UEL) | 15 vol%                                    |
| Vapour pressure               | 2.500 – 3.000 hPa at 20 °C                 |
| Density                       | 0,7996 – 0,8169 g/cm <sup>3</sup> at 20 °C |
| Solubility(ies)               | not determined                             |
| Partition coefficient         |  |
| n-octanol/water (log KOW)     | this information is not available          |
| Auto-ignition temperature     | 225 °C                                     |
| Viscosity                     | not relevant (aerosol)                     |
| Explosive properties          | none                                       |
| Oxidising properties          | none                                       |

### 9.2 Other information

|                    |                       |
|--------------------|-----------------------|
| Refractive index   | 1,373 – 1,383 (20 °C) |
| Solvent content    | 59,03 %               |
| Solid content      | 0 %                   |
| propellant content | 40,97 %               |

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat.

##### Hints to prevent fire or explosion

Protect from sunlight.

##### Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

#### 10.5 Incompatible materials

oxidisers

#### 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 according to GHS (1272/2008/EC, CLP)

###### Acute toxicity

Shall not be classified as acutely toxic.

###### 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 sensitisation

Shall not be classified as a respiratory or skin sensitiser.

###### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

###### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

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### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 1 (slightly hazardous to water)

#### Aquatic toxicity (acute)

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

| Name of substance | CAS No   | Endpoint | Value      | Species | Exposure time |
|-------------------|----------|----------|------------|---------|---------------|
| ethanol           | 64-17-5  | LC50     | 14,2 g/l   | fish    | 96 h          |
| ethanol           | 64-17-5  | EC50     | 12,9 g/l   | fish    | 96 h          |
| butane            | 106-97-8 | LC50     | 27,98 mg/l | fish    | 96 h          |
| butane            | 106-97-8 | EC50     | 7,71 mg/l  | algae   | 96 h          |
| propane           | 74-98-6  | LC50     | 27,98 mg/l | fish    | 96 h          |
| propane           | 74-98-6  | EC50     | 7,71 mg/l  | algae   | 96 h          |

#### Aquatic toxicity (chronic)

##### Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No  | Endpoint | Value      | Species | Exposure time |
|-------------------|---------|----------|------------|---------|---------------|
| ethanol           | 64-17-5 | LC50     | >0,08 mg/l | fish    | 42 d          |
| ethanol           | 64-17-5 | EC50     | 22,6 g/l   | algae   | 10 d          |
| ethanol           | 64-17-5 | ErC50    | 675 mg/l   | algae   | 4 d           |

#### Biodegradation

The relevant substances of the mixture are readily biodegradable.

### 12.2 Persistence and degradability

#### Degradability of components of the mixture

| Name of substance | CAS No  | Process          | Degradation rate | Time |
|-------------------|---------|------------------|------------------|------|
| ethanol           | 64-17-5 | oxygen depletion | 74 %             | 5 d  |

### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

| Name of substance | CAS No   | BCF | Log KOW                      | BOD5/COD |
|-------------------|----------|-----|------------------------------|----------|
| ethanol           | 64-17-5  |     | -0,35 (pH value: 7,4, 24 °C) |          |
| butane            | 106-97-8 |     | 1,09 (pH value: 7, 20 °C)    |          |
| propane           | 74-98-6  |     | 1,09 (pH value: 7, 20 °C)    |          |



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### 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

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. 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

|             |  |  |
|-------------|--|--|
| <b>14.1</b> | UN number  | <b>1950</b>  |
| <b>14.2</b> | UN proper shipping name  | <b>AEROSOLS</b>  |
| <b>14.3</b> | Transport hazard class(es)   |  |
|             | Class  | 2 (gases) (aerosol)  |
|             | Subsidiary risk(s)   | 2.1 (flammability)   |
| <b>14.4</b> | Packing group  | not assigned to a packing group  |
| <b>14.5</b> | Environmental hazards  | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| <b>14.6</b> | Special precautions for user   |  |
|             | Provisions for dangerous goods (ADR) should be complied within the premises. |  |
| <b>14.7</b> | 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, rail and inland waterway (ADR/RID/ADN)

|                      |          |
|----------------------|----------|
| UN number            | 1950     |
| Proper shipping name | AEROSOLS |
| Class                | 2        |
| Classification code  | 5F       |
| Danger label(s)      | 2.1      |



|                          |                    |
|--------------------------|--------------------|
| Special provisions (SP)  | 190, 327, 344, 625 |
| Excepted quantities (EQ) | E0                 |

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|   |          |
|---|----------|
| Limited quantities (LQ)                                     | 1 L      |
| Transport category (TC)                                     | 2        |
| Tunnel restriction code (TRC)                               | D        |
| <b>• International Maritime Dangerous Goods Code (IMDG)</b> |          |
| UN number   | 1950     |
| Proper shipping name  | AEROSOLS |
| Class   | 2.1      |
| Danger label(s)   | 2.1      |



|  |                                  |
|--|----------------------------------|
| Special provisions (SP)  | 63, 190, 277, 327, 344, 381, 959 |
| Excepted quantities (EQ)   | E0                               |
| Limited quantities (LQ)  | 1 L                              |
| EmS  | F-D, S-U                         |
| Stowage category   | -                                |
| <b>• International Civil Aviation Organization (ICAO-IATA/DGR)</b> |                                  |
| UN number  | 1950                             |
| Proper shipping name   | Aerosols, flammable              |
| Class  | 2.1                              |
| Danger label(s)  | 2.1                              |



|                          |            |
|--------------------------|------------|
| Special provisions (SP)  | A145, A167 |
| Excepted quantities (EQ) | E0         |
| Limited quantities (LQ)  | 30 kg      |

### SECTION 15: Regulatory information

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

##### Relevant provisions of the European Union (EU)

##### • Directive 75/324/EEC relating to aerosol dispensers

**Classification of the gas/aerosol** Extremely flammable

##### Labelling

Pressurized container: may burst if heated  
 Keep out of the reach of children  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 Do not pierce or burn, even after use  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C

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### National regulations (Germany)

- **Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)**

**Wassergefährdungsklasse, WGK** 1 (slightly hazardous to water)  
(water hazard class)

- **Technical instructions on air quality control (Germany)**

| Number | Group of substances | Class   | Conc.         | Mass flow | Mass concentration   | Notation |
|--------|---------------------|---------|---------------|-----------|----------------------|----------|
| 5.2.5  | organic substances  | class I | 10 – < 25 wt% | 0,1 kg/h  | 20 mg/m <sup>3</sup> | 3)       |
| 5.2.5  | organic substances  |         | ≥ 25 wt%      | 0,5 kg/h  | 50 mg/m <sup>3</sup> | 3)       |

#### Notation

- 3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

- **Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)**

Storage class (LGK): 2 B (aerosol dispensers and lighters)

### 15.1.4. Regulation on detergents 648/2004

30 % and more aliphatic hydrocarbons, Duftstoff.

### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### 16.1 Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---------------------------|---------------------------|-----------------|
| 1.3     |                           |                           |                 |
| 1.3     |                           |                           |                 |

### Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations  |
|-------|---|
| ADN   | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR   | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| AGW   | Workplace exposure limit  |
| BCF   | Bioconcentration factor   |
| BOD   | Biochemical Oxygen Demand   |
| CAS   | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP   | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| CMR   | Carcinogenic, Mutagenic or toxic for Reproduction   |
| COD   | Chemical oxygen demand  |

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| DFG        | Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim                                   |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)  |
| DMEL       | Derived Minimal Effect Level  |
| DNEL       | Derived No-Effect Level   |
| EC No      | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS     | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS     | European List of Notified Chemical Substances   |
| EmS        | Emergency Schedule  |
| Flam. Gas  | Flammable gas   |
| 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   |
| LGK        | Lagerklasse (storage class according to TRGS 510, Germany)  |
| log KOW    | n-Octanol/water   |
| MARPOL     | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| NLP        | No-Longer Polymer   |
| PBT        | Persistent, Bioaccumulative and Toxic   |
| PNEC       | Predicted No-Effect Concentration   |
| ppm        | Parts per million   |
| Press. Gas | Gas under pressure  |
| REACH      | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID        | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)           |
| STEL       | Short-term exposure limit   |
| TRGS       | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)  |
| TRGS 900   | Arbeitsplatzgrenzwerte (TRGS 900)   |
| TWA        | Time-weighted average   |
| vPvB       | Very Persistent and very Bioaccumulative  |

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

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### 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  |
|------|---|
| H220 | Extremely flammable gas.                            |
| H222 | Extremely flammable aerosol.                        |
| H225 | Highly flammable liquid and vapour.                 |
| H229 | Pressurized container: may burst if heated.         |
| H280 | Contains gas under pressure; may explode if heated. |

### Disclaimer

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