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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2019

Version number 13

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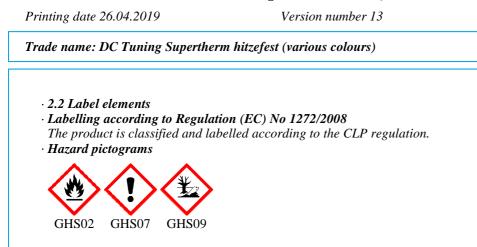
| 1.1 Product ide  | entifier  |   |
|--|---|---|
| Trade name: L  | OC Tuning Su  | pertherm hitzefest (various colours)  |
| 1.2 Relevant id<br>No further rele<br>Sector of Use<br>SU21 Consun<br>SU22 Profess<br>Product catego<br>Process catego<br>PROC7 Indus<br>PROC11 Non  | lentified uses of<br>vant informati<br>ner uses: Priva<br>ional uses: Pu<br>ory PC9a Coo<br>ry<br>ry<br>trial spraying<br>industrial spr                  | nte households / general public / consumers<br>blic domain (administration, education, entertainment, services, craftsmen)<br>atings and paints, thinners, paint removers   |
| Manufacturer/<br>MOTIP DUPL<br>Kurt Vogelsang<br>D-74855 Haßn<br>Tel.: +49/6266  | <b>Supplier:</b><br>I GmbH<br>3 Strasse 6<br>1ersheim<br>1/75-0   | the safety data sheet   |
| msds@de.motij  |   |   |
| 1.4 Emergency  | telephone nu  | ble from: Department Product Safety<br>mber:  |
| <b>1.4 Emergency</b><br>Tel.:+49 6266-<br>Fax +49 6266   | <b>telephone nu</b><br>75-310<br>-75-362  |   |
| <b>1.4 Emergency</b><br>Tel.:+49 6266-<br>Fax +49 6266<br>(Mo - Th 08:00   | e <b>telephone nu</b><br>75-310<br>-75-362<br>0 am - 04:00 pt   | mber:   |
| 1.4 Emergency         Tel.:+49 6266         Fax +49 6266         (Mo - Th 08:00)         SECTION 2         2.1 Classification         Classification   | e telephone nu<br>75-310<br>-75-362<br>) am - 04:00 pt<br>: Hazards id<br>ion of the subs   | mber:<br>m, Fr 08:00 am - 00:30 pm)   |
| 1.4 Emergency         Tel.:+49 6266         Fax +49 6266         (Mo - Th 08:00)         SECTION 2         2.1 Classification         Classification   | telephone nu<br>75-310<br>-75-362<br>am - 04:00 pt<br>Hazards id<br>on of the subs<br>according to H<br>502 flame   | mber:<br>m, Fr 08:00 am - 00:30 pm)<br>dentification<br>stance or mixture   |
| <b>1.4 Emergency</b><br><i>Tel.:+49</i> 6266<br><i>Fax +49</i> 6266<br><i>(Mo - Th 08:00</i><br><b>SECTION 2</b><br><b>2.1 Classification</b><br><b>Classification</b><br><i>GHS</i><br><i>Aerosol 1</i>   | telephone nu<br>75-310<br>-75-362<br>am - 04:00 pt<br>Hazards id<br>on of the subs<br>according to H<br>502 flame   | mber:<br>m, Fr 08:00 am - 00:30 pm)<br>dentification<br>stance or mixture<br>Regulation (EC) No 1272/2008<br>29 Extremely flammable aerosol. Pressurised container: May burst if heated.                                      |
| <b>1.4 Emergency</b><br><i>Tel.:+49</i> 6266<br><i>Fax +49</i> 6266<br><i>(Mo - Th 08:00</i><br><b>SECTION 2</b><br><b>2.1 Classification</b><br><b>Classification</b><br><i>GHS</i><br><i>Aerosol 1</i>   | telephone nu<br>75-310<br>-75-362<br>am - 04:00 pt<br>Hazards id<br>on of the subs<br>according to H<br>02 flame<br>H222-H2                               | mber:<br>m, Fr 08:00 am - 00:30 pm)<br>dentification<br>stance or mixture<br>Regulation (EC) No 1272/2008<br>29 Extremely flammable aerosol. Pressurised container: May burst if heated.                                      |
| 1.4 Emergency         Tel.:+49 6266         Fax +49 6266         (Mo - Th 08:00         SECTION 2         2.1 Classification         Classification         GHS         Aerosol 1  | telephone nu<br>75-310<br>-75-362<br>am - 04:00 pt<br>Hazards id<br>on of the subs<br>according to H<br>02 flame<br>H222-H2<br>509 environme<br>ic 2 H411 | mber:<br>m, Fr 08:00 am - 00:30 pm)<br>dentification<br>stance or mixture<br>Regulation (EC) No 1272/2008<br>29 Extremely flammable aerosol. Pressurised container: May burst if heated.<br>nt                                |
| 1.4 Emergency         Tel.:+49 6266         Fax +49 6266         (Mo - Th 08:00         SECTION 2         2.1 Classification         Classification         GHS         Aerosol 1         Aquatic Chron  | telephone nu<br>75-310<br>-75-362<br>am - 04:00 pt<br>Hazards id<br>on of the subs<br>according to H<br>02 flame<br>H222-H2<br>509 environme<br>ic 2 H411 | mber:<br>m, Fr 08:00 am - 00:30 pm)<br>dentification<br>stance or mixture<br>Regulation (EC) No 1272/2008<br>29 Extremely flammable aerosol. Pressurised container: May burst if heated.<br>nt                                |
| 1.4 Emergency         Fax       +49       6266         Fax       +49       6266         (Mo       - Th       08:00         SECTION 2       2         2.1 Classification       2         Classification       3         Aerosol 1       3         Aquatic Chronn       4         GHS       5         Aquatic Chronn       5         GHS       5 | telephone nu<br>75-310<br>-75-362<br>am - 04:00 pt<br>Hazards i<br>on of the subs<br>according to H<br>02 flame<br>H222-H2<br>09 environme<br>ic 2 H411   | mber: m, Fr 08:00 am - 00:30 pm) dentification stance or mixture Regulation (EC) No 1272/2008 29 Extremely flammable aerosol. Pressurised container: May burst if heated. nt Toxic to aquatic life with long lasting effects. |

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· Signal word Danger

#### · Hazard-determining components of labelling:

*Hydrocarbons,* C6-C7, *n-alkanes, isoalkanes, cyclics,* <5% *n-hexane butan-1-ol* 

#### · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

#### · Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- 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.
- P260 Do not breathe spray.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents / container in accordance with regional regulations.

#### • Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

#### **SECTION 3:** Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

| EC number: 921-024-6<br>Reg.nr.: 01-2119475514-35   | <i>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</i>  | 25-<50%     |
|---|--|-------------|
| -   | <ul> <li>Flam. Liq. 2, H225</li> <li>Asp. Tox. 1, H304</li> <li>Aquatic Chronic 2, H411</li> <li>Skin Irrit. 2, H315; STOT SE 3, H336</li> </ul> | -           |
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Index number: 601-003-00-5<br>Reg.nr.: 01-2119486944-21  | propane<br>Flam. Gas 1, H220<br>Press. Gas (Comp.), H280   | _ 20-<25%   |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Index number: 601-004-00-0<br>Reg.nr.: 01-2119474691-32 | butane<br>🚸 Flam. Gas 1, H220  | _ 12.5-<20% |

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|----------------------------|--|-------------------|
| EC number: 905-588-0       | xylene   | 5-<10%            |
| Index number: 601-022-00-9 | 🚸 Flam. Liq. 3, H226   |                   |
| Reg.nr.: 01-21194882216-32 |  |                   |
| Ũ                          | Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315;                         |                   |
|                            | <i>Eye Irrit. 2, H319; STOT SE 3, H335</i>   |                   |
| CAS: 75-28-5               | isobutane  | 5-<10%            |
| EINECS: 200-857-2          | 🚯 Flam. Gas 1, H220  | -                 |
| Index number: 601-004-00-0 |  |                   |
| Reg.nr.: 01-2119485395-27  |  |                   |
| CAS: 12001-26-2            | Mica   | 5-<10%            |
| EC number: 601-648-2       | substance with a Community workplace exposure limit                                  |                   |
| CAS: 71-36-3               | butan-1-ol   | <2.5%             |
| EINECS: 200-751-6          | 🚯 Flam. Liq. 3, H226   |                   |
| Index number: 603-004-00-6 |  |                   |
| Reg.nr.: 01-2119484630-38  | Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315;<br>STOT SE 3, H335-H336 |                   |
|                            | 5101 52 5, 11555 11556   |                   |

#### · Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply. xylene: Contains ethylbenzene CAS 100-41-4

For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

*CO2*, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

- $\cdot$  5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · 5.3 Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

#### **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
   Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.

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Ensure adequate ventilation. • **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

*Keep ignition sources away - Do not smoke. Keep respiratory protective device available.* 

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• *Requirements to be met by storerooms and receptacles:* Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

· Storage class: 2 B

• 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

#### · 8.1 Control parameters

# 106-97-8 butane

WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

#### xylene

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm Long-term value: 220 mg/m<sup>3</sup>, 50 ppm Sk; BMGV

#### 12001-26-2 Mica

WEL Long-term value: 10\* 0.8\*\* mg/m<sup>3</sup> \*total inhalable \*\*respirable

#### 71-36-3 butan-1-ol

WEL Short-term value: 154 mg/m<sup>3</sup>, 50 ppm Sk

#### · Ingredients with biological limit values:

#### xylene

BMGV 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing

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(Contd. of page 4) Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Avoid contact with the eyes. · Respiratory protection: Not necessary if room is well-ventilated. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. · Protection of hands: In case of contact with spray dust protective gloves made of butyl shoud be used (min. 0.4 mm thick), e.g. KCL Camatril, article no. 898 or similar products Solvent resistant gloves Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves Butyl rubber, BR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material Butyl rubber gloves with a thickness of 0.4 mm are resistant to: Acetone: 480 min Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: Tightly sealed goggles **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties

· General Information

| · Appearance:                           |                                    |
|---|------------------------------------|
| Form:                                   | Aerosol                            |
| Colour:                                 | According to product specification |
| · Odour:                                | Characteristic                     |
| · Odour threshold:                      | Not determined.                    |
| · pH-value:                             | Not determined.                    |
| · Change in condition                   |                                    |
| Melting point/freezing point:           | Undetermined.                      |
| Initial boiling point and boiling range | : Not applicable, as aerosol.      |

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|---|--|
| · Flash point:                            | Not applicable, as aerosol.                |
| · Flammability (solid, gas):              | Not applicable.                            |
| · Ignition temperature:                   | 365 °C (689 °F)                            |
| · Decomposition temperature:              | Not determined.                            |
| · Explosive properties:                   | Not determined.                            |
| · Explosion limits:                       |  |
| Lower:                                    | 1.5 Vol %                                  |
| Upper:                                    | 10.9 Vol %                                 |
| · Vapour pressure at 20 °C (68 °F):       | 8,300 hPa (6,225.5 mm Hg)                  |
| • Density at 20 •C (68 •F):               | 0.73 g/cm <sup>3</sup> (6.09 lbs/gal)      |
| · Relative density                        | Not determined.                            |
| · Vapour density                          | Not determined.                            |
| · Evaporation rate                        | Not applicable.                            |
| · Solubility in / Miscibility with        |  |
| water:                                    | Not miscible or difficult to mix.          |
| · Partition coefficient: n-octanol/water: | Not determined.                            |
| · Viscosity:                              |  |
| Dynamic:                                  | Not determined.                            |
| Kinematic:                                | Not determined.                            |
| · Solvent content:                        |  |
| Organic solvents:                         | 84.9 %                                     |
| VOC (EC)                                  |  |
|   | 620.1 g/l                                  |
| · VOC-EU%                                 | 84.94 %                                    |
| · Solids content:                         | 2.2 %                                      |
| · 9.2 Other information                   | No further relevant information available. |

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

2

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- $\cdot$  10.4 Conditions to avoid No further relevant information available.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.
- $\cdot \ \textbf{10.6 Hazardous decomposition products:} \ \textit{No dangerous decomposition products known}.$

#### SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

|   | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |          |                    |    |  |  |
|---|---|----------|--------------------|----|--|--|
|   | Oral  | LD50     | >5,000 mg/kg (rat) |    |  |  |
|   | Dermal  | LD50     | >2,000 mg/kg (rat) |    |  |  |
|   | Inhalative  | LC50/4 h | >20 mg/m3 (rat)    |    |  |  |
| _ |   |          |                    | (0 |  |  |

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| <ul> <li>Skin corrosion/irritation Causes skin irritation.</li> <li>Serious eye damage/irritation Causes serious eye irritation.</li> <li>Respiratory or skin sensitisation Based on available data, the classification cri.</li> <li>CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)</li> <li>Germ cell mutagenicity Based on available data, the classification criteria are not met</li> <li>Carcinogenicity Based on available data, the classification criteria are not met</li> <li>Reproductive toxicity Based on available data, the classification criteria are not met</li> <li>STOT-single exposure May cause drowsiness or dizziness.</li> <li>STOT-repeated exposure Based on available data, the classification criteria are not met</li> <li>Aspiration hazard Based on available data, the classification criteria are not met</li> <li>SECTION 12: Ecological information</li> <li>12.1 Toxicity:</li> <li>Aquatic toxicity:</li> <li>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</li> <li>EC50 / 48 h 3 mg/l (daphnia magna / Wasserfloh)</li> <li>EC50 / 72 h 30 mg/l (Pseudokirchneriella Subcapitata)</li> <li>LC50 / 96 h 11.4 mg/l (oncorhynchus mykiss / Regenbogenforelle)</li> </ul>   |  |  |
|---|--|--|
| Dermal       LD50       2,000 mg/kg (rabbit)         Inhalative       LC50 / 4 h       29,000 mg/m3 (rat) <b>71-36-3 butan-1-ol</b> 0ral       LD50       2,292 mg/kg (rat)         Dermal       LD50       3,430 mg/kg (rabbit)         Inhalative       LC50 / 4 h       17.76 mg/m3 (rat) <b>Primary irritant effect: Skin corrosion/irritation</b> Causes skin irritation.       Serious eye damage/irritation         Causes serious eye irritation.       Serious eye irritation. <b>Causes serious eye irritation</b> Causes serious eye irritation. <b>Causes serious eye irritation</b> Causes serious eye irritation. <b>Causes serious eye irritation</b> Causes of available data, the classification criteria are of mediated in mutagenicity and toxicity for reproduction)         Germ cell mutagenicity Based on available data, the classification criteria are not met <b>Reproductive toxicity Based on available data, the classification criteria are not met STOT-single exposure</b> May cause drowsiness or dizziness.         STOT-repeated exposure Based on available data, the classification criteria are not met <b>Aquatic toxicity: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b> EC50 / 28 h       3 mg/l (daphnia magna / Wasserfloh)         EC50  |  |  |
| Inhalative       LC50 / 4 h       29,000 mg/m3 (rat)         71-36-3 butan-1-ol       Oral       LD50       2,292 mg/kg (rat)         Dermal       LD50       3,430 mg/kg (rabbit)         Inhalative       LC50 / 4 h       17.76 mg/m3 (rat)         • Primary irritant effect:       • Skin corrosion/irritation         Causes skin irritation.       • Serious eye damage/irritation         Causes serious eye irritation.       • Serious eye irritation.         • Serious eye damage/irritation.       • Serious eye irritation.         • Respiratory or skin sensitisation Based on available data, the classification criteria are         • Carcinogenicity Based on available data, the classification criteria are not met         • Reproductive toxicity Based on available data, the classification criteria are not         • STOT-single exposure         May cause drowsiness or dizziness.         • STOT-repeated exposure Based on available data, the classification criteria are not met         • Aspiration hazard Based on available data, the classification criteria are not met         • Aquatic toxicity:         • Aquatic toxicity:         • Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane         EC50 / 28 h       3 mg/l (daphnia magna / Wasserfloh)         EC50 / 72 h       30 mg/l (Pseudokirchneriella Subcapitata)         LC50 / 96 h |  | LD50 3,  |
| 71-36-3 butan-1-ol         Oral       LD50       2,292 mg/kg (rat)         Dermal       LD50       3,430 mg/kg (rabbit)         Inhalative       LC50 / 4 h       17.76 mg/m3 (rat)         Primary irritant effect:       Skin corrosion/irritation         Causes skin irritation.       Serious eye damage/irritation         Causes serious eye irritation.       Serious eye irritation.         Respiratory or skin sensitisation Based on available data, the classification criteria are         CAR effects (carcinogenity, mutagenicity and toxicity for reproduction)         Germ cell mutagenicity Based on available data, the classification criteria are not met         Reproductive toxicity Based on available data, the classification criteria are not met         Reproductive toxicity Based on available data, the classification criteria are not         STOT-single exposure         May cause drowsiness or dizziness.         STOT-repeated exposure Based on available data, the classification criteria are not met         Aspiration hazard Based on available data, the classification criteria are not met         SECTION 12: Ecological information         12.1 Toxicity         Aquatic toxicity:         Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  |  | nal LD50 2,  |
| Oral       LD50       2,292 mg/kg (rat)         Dermal       LD50       3,430 mg/kg (rabbit)         Inhalative       LC50 / 4 h       17.76 mg/m3 (rat)         • Primary irritant effect:       •         • Skin corrosion/irritation       causes skin irritation.         • Causes skin irritation.       •         • Serious eye damage/irritation       causes skin irritation.         • Causes skin is ristiation.       •         • Respiratory or skin sensitisation Based on available data, the classification crit         • Carcinogenicity Based on available data, the classification criteria are not met         • Reproductive toxicity Based on available data, the classification criteria are not met         • STOT-single exposure         May cause drowsiness or dizziness.         • STOT-repeated exposure Based on available data, the classification criteria are not met         • Aspiration hazard Based on available data, the classification criteria are not met         • SECTION 12: Ecological information         • 12.1 Toxicity         • Aquatic toxicity:         Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane   |  | lative LC50/4 h 2  |
| Dermal       LD50       3,430 mg/kg (rabbit)         Inhalative       LD50 / 4 h       17.76 mg/m3 (rat)         • Primary irritant effect:       •         • Skin corrosion/irritation       -         Causes skin irritation.       •         • Serious eye damage/irritation       -         Causes skin irritation.       •         • Serious eye damage/irritation       -         Causes serious eye irritation.       •         • Respiratory or skin sensitisation Based on available data, the classification criteria are not met         • Germ cell mutagenicity Based on available data, the classification criteria are not met         • Reproductive toxicity Based on available data, the classification criteria are not met         • Reproductive toxicity Based on available data, the classification criteria are not met         • STOT-single exposure         May cause drowsiness or dizziness.         • STOT-repeated exposure Based on available data, the classification criteria are not met         • Aspiration hazard Based on available data, the classification criteria are not met         • Aquatic toxicity:         • Aquatic toxicity:         Hydrocarbors, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  |  | 6-3 butan-1-ol   |
| Inhalative       LC50 / 4 h       17.76 mg/m3 (rat)         Primary irritant effect:       Skin corrosion/irritation         Causes skin irritation.       Serious eye damage/irritation         Causes serious eye irritation.       Serious eye irritation.         Respiratory or skin sensitisation Based on available data, the classification crit.         CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)         Germ cell mutagenicity Based on available data, the classification criteria are not met         Reproductive toxicity Based on available data, the classification criteria are not met         Reproductive toxicity Based on available data, the classification criteria are not         STOT-single exposure         May cause drowsiness or dizziness.         STOT-repeated exposure Based on available data, the classification criteria are not met         Aspiration hazard Based on available data, the classification criteria are not met         SECTION 12: Ecological information         • 12.1 Toxicity         • Aquatic toxicity:         Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane   |  | LD50 2,  |
| <ul> <li>Primary irritant effect:</li> <li>Skin corrosion/irritation Causes skin irritation.</li> <li>Serious eye damage/irritation Causes serious eye irritation.</li> <li>Respiratory or skin sensitisation Based on available data, the classification crit</li> <li>CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)</li> <li>Germ cell mutagenicity Based on available data, the classification criteria are not met</li> <li>Reproductive toxicity Based on available data, the classification criteria are not met</li> <li>Reproductive toxicity Based on available data, the classification criteria are not</li> <li>STOT-single exposure May cause drowsiness or dizziness.</li> <li>STOT-repeated exposure Based on available data, the classification criteria are not met</li> <li>Aspiration hazard Based on available data, the classification criteria are not met</li> <li>SECTION 12: Ecological information</li> <li>12.1 Toxicity</li> <li>Aquatic toxicity:</li> <li>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</li> <li>EC50 / 28 h 3 mg/l (daphnia magna / Wasserfloh)</li> <li>EC50 / 72 h 30 mg/l (Pseudokirchneriella Subcapitata)</li> <li>LC50 / 96 h 11.4 mg/l (oncorhynchus mykiss / Regenbogenforelle)</li> </ul>  |  | nal LD50 3,  |
| <ul> <li>Skin corrosion/irritation Causes skin irritation.</li> <li>Serious eye damage/irritation Causes serious eye irritation.</li> <li>Respiratory or skin sensitisation Based on available data, the classification cri.</li> <li>CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)</li> <li>Germ cell mutagenicity Based on available data, the classification criteria are not met</li> <li>Carcinogenicity Based on available data, the classification criteria are not met</li> <li>Reproductive toxicity Based on available data, the classification criteria are not met</li> <li>STOT-single exposure May cause drowsiness or dizziness.</li> <li>STOT-repeated exposure Based on available data, the classification criteria are not met</li> <li>Aspiration hazard Based on available data, the classification criteria are not met</li> <li>SECTION 12: Ecological information</li> <li>12.1 Toxicity:</li> <li>Aquatic toxicity:</li> <li>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</li> <li>EC50 / 48 h 3 mg/l (daphnia magna / Wasserfloh)</li> <li>EC50 / 72 h 30 mg/l (Pseudokirchneriella Subcapitata)</li> <li>LC50 / 96 h 11.4 mg/l (oncorhynchus mykiss / Regenbogenforelle)</li> </ul>   |  | lative LC50/4 h 1  |
| SECTION 12: Ecological information         • 12.1 Toxicity         • Aquatic toxicity:         Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane         EC50 / 48 h         3 mg/l (daphnia magna / Wasserfloh)         EC50 / 72 h         30 mg/l (Pseudokirchneriella Subcapitata)         LC50 / 96 h         1.4 mg/l (oncorhynchus mykiss / Regenbogenforelle)   | not met.<br>t.<br>ot met.<br>re not met. | piratory or skin sens<br>R effects (carcinogen<br>n cell mutagenicity<br>cinogenicity Based o<br>roductive toxicity Ba<br>(T-single exposure<br>cause drowsiness of<br>T-repeated exposure |
| EC50 / 48 h3 mg/l (daphnia magna / Wasserfloh)EC50 / 72 h30 mg/l (Pseudokirchneriella Subcapitata)LC50 / 96 h11.4 mg/l (oncorhynchus mykiss / Regenbogenforelle)  |  | Toxicity   |
| EC50 / 72 h30 mg/l (Pseudokirchneriella Subcapitata)LC50 / 96 h11.4 mg/l (oncorhynchus mykiss / Regenbogenforelle)  |  | rocarbons, C6-C7, n  |
| LC50/96 h 11.4 mg/l (oncorhynchus mykiss / Regenbogenforelle)   |  | 0/48 h 3 mg/l (dap   |
|   |  | 0 / 72 h 30 mg/l (Ps   |
|   |  | 0 / 96 h 11.4 mg/l (a  |
| xylene  |  | ne   |
| EC50/48 h 7.4 mg/l (daphnia magna)  |  | 0 / 48 h 7.4 mg/l (da  |
| LC50/96 h 13.5 mg/l (fish)  |  |  |
| 71-36-3 butan-1-ol  |  |  |

• 12.2 Persistence and degradability No further relevant information available.

- $\cdot$  12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- Remark: Toxic for fish
- $\cdot$  Additional ecological information:
- · General notes:

\*

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

· 12.5 Results of PBT and vPvB assessment

• *PBT*: Not applicable.

· vPvB: Not applicable.

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• 12.6 Other adverse effects No further relevant information available.

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**SECTION 13: Disposal considerations** 

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

### $\cdot$ European waste catalogue

08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances

15 01 04 metallic packaging

15 01 10\* packaging containing residues of or contaminated by hazardous substances

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA UN1950 · 14.2 UN proper shipping name 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS  $\cdot ADR$ · IMDG AEROSOLS ·IATA AEROSOLS, flammable · 14.3 Transport hazard class(es) · ADR · Class 2 5F Gases. · Label 2.1 · IMDG, IATA · Class 2.1 · Label 2.1 · 14.4 Packing group · ADR, IMDG, IATA not regulated · 14.5 Environmental hazards: · Marine pollutant: Yes · Special marking (ADR): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Gases. · Danger code (Kemler): (Contd. on page 9) GB Page 9/10

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|   | (Contd. of page 8)  |  |  |  |
|---|---|--|--|--|
| EMS Number:                                     | F-D,S-U   |  |  |  |
| Stowage Code                                    | SW1 Protected from sources of heat.   |  |  |  |
|   | SW22 For AEROSOLS with a maximum capacity of 1 litre:                                 |  |  |  |
|   | Category A. For AEROSOLS with a capacity above 1 litre:                               |  |  |  |
|   | Category B. For WASTE AEROSOLS: Category C, Clear                                     |  |  |  |
|   | of living quarters.   |  |  |  |
| Segregation Code                                | SG69 For AEROSOLS with a maximum capacity of 1 litre:                                 |  |  |  |
|   | Segregation as for class 9. Stow "separated from" class 1<br>except for division 1.4. |  |  |  |
|   | For AEROSOLS with a capacity above 1 litre:   |  |  |  |
|   | Segregation as for the appropriate subdivision of class 2.                            |  |  |  |
|   | For WASTE AEROSOLS:   |  |  |  |
|   | Segregation as for the appropriate subdivision of class 2.                            |  |  |  |
| 14.7 Transport in bulk according to Annex II of |   |  |  |  |
| Marpol and the IBC Code                         | Not applicable.   |  |  |  |
| Transport/Additional information:               |   |  |  |  |
| ADR   |   |  |  |  |
| Limited quantities (LQ)                         | 1L  |  |  |  |
| Excepted quantities $(EQ)$                      | Code: E0  |  |  |  |
|   | Not permitted as Excepted Quantity  |  |  |  |
| Transport category                              | 2   |  |  |  |
| Tunnel restriction code                         | D   |  |  |  |
| IMDG  |   |  |  |  |
| Limited quantities (LQ)                         | 1L  |  |  |  |
| Excepted quantities (EQ)                        | Code: E0  |  |  |  |
| Excepted quantities (EQ)                        |   |  |  |  |
|   | Not permitted as Excepted Quantity  |  |  |  |
| UN "Model Regulation":                          | Not permitted as Excepted Quantity<br>UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY          |  |  |  |

# SECTION 15: Regulatory information

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

· Directive 2012/18/EU

• Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

 $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.

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|  | (Contd. of page 9) |
|--|--------------------|
| H302 Harmful if swallowed.   |                    |
| H304 May be fatal if swallowed and enters airways.   |                    |
| H312 Harmful in contact with skin.   |                    |
| H315 Causes skin irritation.   |                    |
| H318 Causes skill inflation.<br>H318 Causes serious eye damage.  |                    |
|  |                    |
| H319 Causes serious eye irritation.  |                    |
| H332 Harmful if inhaled.   |                    |
| H335 May cause respiratory irritation.   |                    |
| H336 May cause drowsiness or dizziness.  |                    |
| H373 May cause damage to organs through prolonged or repeated exposure.  |                    |
| H411 Toxic to aquatic life with long lasting effects.  |                    |
| · Abbreviations and acronyms:  |                    |
| RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations                     | Concerning the     |
| International Transport of Dangerous Goods by Rail)  |                    |
| ICAO: International Civil Aviation Organisation  |                    |
| ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning th                       | he International   |
| Carriage of Dangerous Goods by Road)   |                    |
| IMDG: International Maritime Code for Dangerous Goods  |                    |
| IATA: International Air Transport Association  |                    |
| GHS: Globally Harmonised System of Classification and Labelling of Chemicals   |                    |
| EINECS: European Inventory of Existing Commercial Chemical Substances  |                    |
| ELINCS: European List of Notified Chemical Substances<br>CAS: Chemical Abstracts Service (division of the American Chemical Society) |                    |
| VOC: Volatile Organic Compounds (USA, EU)  |                    |
| LC50: Lethal concentration, 50 percent   |                    |
| LD50: Lethal dose, 50 percent  |                    |
| PBT: Persistent, Bioaccumulative and Toxic   |                    |
| SVHC: Substances of Very High Concern  |                    |
| vPvB: very Persistent and very Bioaccumulative   |                    |
| Flam. Gas 1: Flammable gases – Category 1  |                    |
| Aerosol 1: Aerosols – Category 1   |                    |
| Press. Gas (Comp.): Gases under pressure – Compressed gas  |                    |
| Flam. Liq. 2: Flammable liquids – Category 2   |                    |
| Flam. Liq. 3: Flammable liquids – Category 3   |                    |
| Acute Tox. 4: Acute toxicity – Category 4  |                    |
| Skin Irrit. 2: Skin corrosion/irritation – Category 2<br>Eye Dam. 1: Serious eye damage/eye irritation – Category 1                  |                    |
| Eye Irrit. 2: Serious eye damage/eye irritation – Category 1<br>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2         |                    |
| STOT SE 3: Specific target organ toxicity (single exposure) – Category 3   |                    |
| STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2   |                    |
| Asp. Tox. 1: Aspiration hazard – Category 1  |                    |
| Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2                                      |                    |
| • * Data compared to the previous version altered.   |                    |
| - •  | GB                 |