

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.03.2022

Version number 19 (replaces version 18)

Revision: 02.03.2022

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

### 1.1 Product identifier

Trade name: **OPN-Mold- and Brake Disc Corrosion Protection - curing**

Article number: 63456

Unique formula identifier (UFI): 99QN-H55K-T00E-XU60

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

No further relevant information available.

Application of the substance / the mixture Preservative

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

#### Manufacturer/Supplier:

OPN-CHEMIE GmbH  
In der Au 14  
57290 Neunkirchen  
www.opn-chemie.de

#### Further information obtainable from:

Barbara Angelika Gros-Petri  
E-Mail (competent person) baerbel.petri@opn-chemie.de

### 1.4 Emergency telephone number:

Emergency information service Vergiftungs-Informations-Zentrale Freiburg +49 (0) 761 / 1 92 40

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008



flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS02 GHS07 GHS09

Signal word Danger

#### Hazard-determining components of labelling:

pentane

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Hydrocarbons, C5-C7, n-alkanes, isoalkanes, <5% n-hexane  
 Hydrocarbons, C6, isoalkanes, <5% n-hexane  
 Hydrocarbons, C6-C7, isoalkanes, cycloalkanes, <5% n-hexane

#### · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
 H315 Causes skin 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.  
 P261 Avoid breathing vapours or spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P391 Collect spillage.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.  
 P501 Dispose of contents / container in accordance with national regulations of the disposal.

#### · 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 Mixtures

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

#### · Dangerous components:

|                                                                      |                                                                                                                                                                          |         |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Reg.nr.: 01-2119486944-21-xxxx  | propane<br>⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280                                                                                                                | 25-<50% |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Reg.nr.: 01-2119474691-32-xxxx | butane, pure<br>⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280                                                                                                           | 20-<25% |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Reg.nr.: 01-2119485395-27-xxxx  | isobutane<br>⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280                                                                                                              | 10-<20% |
| CAS: 109-66-0<br>EINECS: 203-692-4<br>Reg.nr.: 01-2119459286-30-xxxx | pentane<br>⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336, EUH066                                                               | 10-<20% |
| EC number: 922-114-8                                                 | Hydrocarbons, C5-C7, n-alkanes, isoalkanes, <5% n-hexane<br>⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 | 10-<20% |
| EC number: 931-254-9<br>Reg.nr.: 01-2119484651-34-xxxx               | Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336               | 5-<10%  |
| EC number: 926-605-8<br>Reg.nr.: 01-2119486291-36-xxxx               | Hydrocarbons, C6-C7, isoalkanes, cycloalkanes, <5% n-hexane<br>⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336                   | 5-<10%  |

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|                                                        |                                                                                                                                                   |         |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| EC number: 928-136-4<br>Reg.nr.: 01-2119484809-19-xxxx | Hydrocarbons, C8-C12, n-alkanes, isoalkanes, cycloalkanes, aromatics (2-25%)<br>⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336 | 1-<2.5% |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|

· **Additional information:** 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:**  
Supply fresh air; consult doctor in case of complaints.  
Take affected persons into fresh air and keep quiet.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately remove any clothing soiled by the product.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **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:**  
Fire-extinguishing powder  
Carbon dioxide  
Foam
- **5.2 Special hazards arising from the substance or mixture**  
Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.
- **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:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.

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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.  
Avoid contact with skin and eyes.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **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:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.2 Exposure controls**

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 106-97-8 butane, pure**

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

**CAS: 109-66-0 pentane**

|     |                                                   |
|-----|---------------------------------------------------|
| WEL | Long-term value: 1800 mg/m <sup>3</sup> , 600 ppm |
|-----|---------------------------------------------------|

- **Additional information:** The lists valid during the making were used as basis.
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
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.  
Not necessary if room is well-ventilated.
- **Recommended filter device for short term use:** Filter AX
- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**  
Nitrile rubber, NBR  
Recommended thickness of the material: ≥ 0.7 mm

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- **Penetration time of glove material**  
≥240 min  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Not required.
- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

- |                                                                   |                                   |
|-------------------------------------------------------------------|-----------------------------------|
| · <b>Physical state</b>                                           | Aerosol                           |
| · <b>Colour:</b>                                                  | Colourless                        |
| · <b>Odour:</b>                                                   | Solvent-like                      |
| · <b>Odour threshold:</b>                                         | Not determined.                   |
| · <b>Melting point/freezing point:</b>                            | Undetermined.                     |
| · <b>Boiling point or initial boiling point and boiling range</b> | -44 °C                            |
| · <b>Flammability</b>                                             | Not applicable.                   |
| · <b>Lower and upper explosion limit</b>                          |                                   |
| · <b>Lower:</b>                                                   | Not determined.                   |
| · <b>Upper:</b>                                                   | Not determined.                   |
| · <b>Flash point:</b>                                             | -97 °C                            |
| · <b>Ignition temperature:</b>                                    | >200 °C                           |
| · <b>Decomposition temperature:</b>                               | Not determined.                   |
| · <b>pH</b>                                                       | Not determined.                   |
| · <b>Viscosity:</b>                                               |                                   |
| · <b>Kinematic viscosity</b>                                      | Not determined.                   |
| · <b>Dynamic:</b>                                                 | Not determined.                   |
| · <b>Solubility</b>                                               |                                   |
| · <b>water:</b>                                                   | Not miscible or difficult to mix. |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.                   |
| · <b>Vapour pressure:</b>                                         | Not determined.                   |
| · <b>Density and/or relative density</b>                          |                                   |
| · <b>Density at 20 °C:</b>                                        | 0.58978 g/cm <sup>3</sup>         |
| · <b>Relative density</b>                                         | Not determined.                   |
| · <b>Vapour density</b>                                           | Not determined.                   |

#### · 9.2 Other information

- |                                                                                        |                 |
|----------------------------------------------------------------------------------------|-----------------|
| · <b>Appearance:</b>                                                                   |                 |
| · <b>Form:</b>                                                                         | Aerosol         |
| · <b>Important information on protection of health and environment, and on safety.</b> |                 |
| · <b>Auto-ignition temperature:</b>                                                    | Not determined. |
| · <b>Explosive properties:</b>                                                         | Not determined. |
| · <b>Solvent separation test:</b>                                                      |                 |
| · <b>Organic solvents:</b>                                                             | 99.5 %          |
| · <b>VOC (EC)</b>                                                                      | 587.0 g/l       |
| · <b>Solids content:</b>                                                               | 0.0 %           |
| · <b>Change in condition</b>                                                           |                 |
| · <b>Evaporation rate</b>                                                              | Not applicable. |

#### · Information with regard to physical hazard classes

- |                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| · <b>Explosives</b>      | Void                                                                     |
| · <b>Flammable gases</b> | Void                                                                     |
| · <b>Aerosols</b>        | Extremely flammable aerosol. Pressurised container: May burst if heated. |

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|                                                                             |      |
|-----------------------------------------------------------------------------|------|
| · Oxidising gases                                                           | Void |
| · Gases under pressure                                                      | Void |
| · Flammable liquids                                                         | Void |
| · Flammable solids                                                          | Void |
| · Self-reactive substances and mixtures                                     | Void |
| · Pyrophoric liquids                                                        | Void |
| · Pyrophoric solids                                                         | Void |
| · Self-heating substances and mixtures                                      | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids                                                         | Void |
| · Oxidising solids                                                          | Void |
| · Organic peroxides                                                         | Void |
| · Corrosive to metals                                                       | Void |
| · Desensitised explosives                                                   | Void |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Aldehyde

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

|            |          |                  |
|------------|----------|------------------|
| Inhalative | LC50/4 h | >48.6 mg/l (rat) |
|------------|----------|------------------|

**CAS: 74-98-6 propane**

|            |          |                |
|------------|----------|----------------|
| Inhalative | LC50/4 h | >20 mg/l (rat) |
|------------|----------|----------------|

**CAS: 106-97-8 butane, pure**

|            |          |                |
|------------|----------|----------------|
| Inhalative | LC50/4 h | 658 mg/l (rat) |
|------------|----------|----------------|

**CAS: 75-28-5 isobutane**

|            |          |                |
|------------|----------|----------------|
| Inhalative | LC50/4 h | 658 mg/l (rat) |
|------------|----------|----------------|

**CAS: 109-66-0 pentane**

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
|------|------|--------------------|

|            |          |                 |
|------------|----------|-----------------|
| Inhalative | LC50/4 h | 25.3 mg/l (rat) |
|------------|----------|-----------------|

**Hydrocarbons, C6, isoalkanes, <5% n-hexane**

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
|------|------|--------------------|

|        |      |                    |
|--------|------|--------------------|
| Dermal | LD50 | >3,000 mg/kg (rat) |
|--------|------|--------------------|

|            |          |                |
|------------|----------|----------------|
| Inhalative | LC50/4 h | >20 mg/l (rat) |
|------------|----------|----------------|

**Hydrocarbons, C6-C7, isoalkanes, cycloalkanes, <5% n-hexane**

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
|------|------|--------------------|

|        |      |                    |
|--------|------|--------------------|
| Dermal | LD50 | >2,000 mg/kg (rab) |
|--------|------|--------------------|

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|            |          |                |
|------------|----------|----------------|
| Inhalative | LC50/4 h | >20 mg/l (rat) |
|------------|----------|----------------|

- **Skin corrosion/irritation** Causes skin irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **Aspiration hazard** May be fatal if swallowed and enters airways.
- **11.2 Information on other hazards**

|                                          |
|------------------------------------------|
| · <b>Endocrine disrupting properties</b> |
|------------------------------------------|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **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

### 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.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |                                       |                            |
|---------------------------------------|----------------------------|
| · <b>14.1 UN number or ID number</b>  |                            |
| · <b>ADR/RID/ADN, IMDG, IATA</b>      | UN1950                     |
| · <b>14.2 UN proper shipping name</b> |                            |
| · <b>ADR/RID/ADN</b>                  | UN1950 AEROSOLS            |
| · <b>IMDG</b>                         | AEROSOLS, MARINE POLLUTANT |
| · <b>IATA</b>                         | AEROSOLS, flammable        |

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· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN**



· **Class** 2 5F Gases.  
 · **Label** 2.1

· **IMDG**



· **Class** 2.1 Gases.  
 · **Label** 2.1

· **IATA**



· **Class** 2.1 Gases.  
 · **Label** 2.1

· **14.4 Packing group**

· **ADR/RID/ADN, IMDG, IATA** Void

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances: Solvent Naphta

· **Marine pollutant:**

Yes  
 Symbol (fish and tree)

· **Special marking (ADR/RID/ADN):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Gases.

· **Hazard identification number (Kemler code):**

-

· **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.  
 SG69 For AEROSOLS with a maximum capacity of 1 litre:  
 Segregation as for class 9. Stow "separated from" class 1 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 Maritime transport in bulk according to IMO instruments**

Not applicable.

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**· Transport/Additional information:**
**· ADR/RID/ADN**
**· 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

Not permitted as Excepted Quantity

**· UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**· Directive 2012/18/EU**
**· Named dangerous substances - ANNEX I** None of the ingredients is listed.

**· Seveso category**

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

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

**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

**· 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.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

**· 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 relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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.**

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