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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 30.04.2020 / 0014  
 Replacing version dated / version: 22.02.2019 / 0013  
 Valid from: 30.04.2020  
 PDF print date: 30.04.2020  
 Seiffett 500 mL  
 Art.: 6135

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

**1.1 Product identifier**  
**Seiffett 500 mL**  
**Art.: 6135**

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

**Relevant identified uses of the substance or mixture:**  
 Lubricant  
 Sector of use (SU): Uses of substances as such or in preparations at industrial sites  
 SU 3 - Industrial uses: Private households (=general public = consumers)  
 SU21 - Consumer uses: Public domain (administration, education, entertainment, services, craftsmen)  
 SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
**Chemical product category (PC):**  
 PC17 - Hydraulic fluids  
 PC24 - Lubricants, greases, release products  
**Process category (PROC):**  
 PROC 7 - Industrial spraying  
 PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities  
 PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities  
 PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)  
 PROC10 - Roller application or brushing  
 PROC11 - Non industrial spraying  
 PROC13 - Treatment of articles by dipping and pouring  
 PROC17 - Lubrication at high energy conditions in metal working operation  
 PROC18 - General greasing/lubrication at high kinetic energy conditions  
 PROC19 - Manual activities involving hand contact  
 PROC20 - Use of functional fluids in small devices  
**Article Categories (AC):**  
 AC99 - Not required.

**Environmental Release Category (ERC):**  
 ERC 2 - Formulation into mixture  
 ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)  
 ERC 7 - Use of functional fluid at industrial site  
 ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)  
 ERC 8b - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)  
 ERC 8c - Widespread use leading to inclusion into/onto article (indoor)  
 ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)  
 ERC 8f - Widespread use leading to inclusion into/onto article (outdoor)  
 ERC 8a - Widespread use of functional fluid (indoor)  
 ERC 8b - Widespread use of functional fluid (outdoor)

#### Uses advised against:

No information available at present.

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

LIQUI MOLY GmbH  
 Jerg-Wieland-Str. 4  
 89081 Ulm-Lehr  
 Tel.: (+49) 0731-1420-0  
 Fax: (+49) 0731-1420-86

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Qualified person's e-mail address: [info@chemical-check.de](mailto:info@chemical-check.de), [k.schnurbusch@chemical-check.de](mailto:k.schnurbusch@chemical-check.de) Please DO NOT use for requesting Safety Data Sheets.

**1.4 Emergency telephone number**  
**Emergency information services / official advisory body:**  
 ...  
**Telephone number of the company in case of emergencies:**  
 +49 (0) 700 / 24 112 112 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container. May burst if heated.

#### 2.2 Label elements

##### Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container. May burst if heated.  
 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.  
 P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.  
 P501-Dispose of contents / container to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible.  
 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  
 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
 Pentane  
 Isoalkanes (C9 - C12)

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).  
 The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

### SECTION 3: Composition/information on ingredients

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Aerosol

### 3.1 Substance

n.a.

### 3.2 Mixture

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	919-184-8 (REACH/HT List-No.)
CAS	(64742-92-1)
content %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304 Aquatic Chronic 3, H412

**Pentane**  
 Substance for which an EU exposure limit value applies.

Registration number (REACH)	---
Index	601-006-00-1
EINECS, ELINCS, NLP	203-692-4
CAS	109-66-0
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 2, H411 Asp. Tox. 1, H304 STOT SE 3, H336 Flam. Liq. 2, H225

**Dimethyl ether**  
 Substance for which an EU exposure limit value applies.

Registration number (REACH)	01-2119472128-37-XXXX
Index	603-019-00-8
EINECS, ELINCS, NLP	204-065-8
CAS	115-10-6
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Gas 1A, H220

**Isoalkanes (C9 - C12)**

Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	292-459-0
CAS	90622-57-4
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 4, H413 Asp. Tox. 1, H304 Flam. Liq. 3, H226

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

Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	921-024-6 (REACH/HT List-No.)
CAS	---
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Respiratory arrest - Artificial respiration apparatus necessary.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water.

Consult medical specialist.

#### Ingestion

Typically, no exposure pathway.

Rinse the mouth thoroughly with water.

In case of vomiting - give copious water to drink. Consult doctor immediately.

Do not induce vomiting - keep head low so that the stomach content does not reach the lungs.

Immediate admittance to a hospital.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes

with long-term contact

Drying of the skin.

Dermatitis (skin inflammation)

Irritation of the skin.

At high concentrations:

Irritation of the respiratory tract

Coughing

Dizziness

Headaches

Effect on the central nervous system

Coordination disorders

Unconsciousness

Ingestion of large quantities:

Headaches

Nausea

Vomiting

Danger of aspiration.

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

n.c.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

CO<sub>2</sub>

Dry extinguisher

Water jet spray

**Unsuitable extinguishing media**

High volume water jet.

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

- In case of fire the following can develop:
  - Oxides of carbon
  - Toxic pyrolysis products.
  - Danger of bursting (explosion) when heated
  - Explosive vapour/air or gas/air mixtures.
  - Dangerous vapours heavier than air.
- In case of spreading near the ground, flashback to distance sources of ignition is possible.

### 5.3 Advice for firefighters

- In case of fire and/or explosion do not breathe fumes.
- Protective respirator with independent air supply.
- According to size of fire
- Full protection, if necessary.
- Cool container at risk with water.
- Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Remove possible causes of ignition - do not smoke.
  - Ensure sufficient supply of air.
  - Avoid contact with eyes or skin.
  - If applicable, caution - risk of slipping.
- ### 6.2 Environmental precautions
- Prevent surface and ground-water infiltration, as well as ground penetration.
  - Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.
  - If accidental entry into drainage system occurs, inform responsible authorities.

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

- If spray or gas escapes, ensure ample fresh air is available.
- Without adequate ventilation, formation of explosive mixtures may be possible.
- Active substance:
- Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

### 6.4 Reference to other sections

- For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

- Ensure good ventilation.
- Avoid inhalation of the vapours.
- Do not use the product in enclosed spaces.
- Keep away from sources of ignition - Do not smoke.
- Do not use on hot surfaces.
- Avoid contact with eyes or skin.
- Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
- Observe directions on label and instructions for use.
- Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

- General hygiene measures for the handling of chemicals are applicable.
  - Wash hands before breaks and at end of work.
  - Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
- ### 7.2 Conditions for safe storage, including any incompatibilities
- Keep out of access to unauthorised individuals.
  - Store product closed and only in original packing.
  - Not to be stored in gangways or stair wells.

- Do not store with oxidizing agents.
- Observe special regulations for aerosols!
- Observe special storage conditions.
- Keep protected from direct sunlight and temperatures over 50°C.
- Store in a well ventilated place.

### 7.3 Specific end uses(s)

- No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

- Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m<sup>3</sup>

<p> <b>35</b> <b>Chemical Name</b> Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  <b>WEL-TWA:</b> 1000 mg/m<sup>3</sup> <b>WEL-STEL:</b> --- <b>Content %:</b> 10-20  <b>Monitoring procedures:</b>            - Draeger - Hydrocarbons 2/a (81 03 581)            - Draeger - Hydrocarbons 0.1%/c (81 03 571)            - Compur - KITA-187 S (551 174)  <b>BMGV:</b> --- <b>Other information:</b> (OEL acc. to RCP-method, paragraphs 84-87, EH40)         </p>
<p> <b>35</b> <b>Chemical Name</b> Pentane  <b>WEL-TWA:</b> 1800 mg/m<sup>3</sup> (600 ppm) (WEL), 3000 mg/m<sup>3</sup> (1000 ppm) (EU)  <b>Monitoring procedures:</b>            - Compur - KITA-113 SB(C) (549 368)            - Draeger - Pentane 100/a (87 24 701)            - DFG (D) [Loesungsmittelgemische Meth. Nr. 1], DFG (E) (Solvent mixtures 1) - 1998, 2002  <b>BMGV:</b> --- <b>Other information:</b> --- <b>Content %:</b> 1-10         </p>
<p> <b>35</b> <b>Chemical Name</b> Dimethyl ether  <b>WEL-TWA:</b> 400 ppm (766 mg/m<sup>3</sup>) (WEL), 1000 ppm (1920 mg/m<sup>3</sup>) (EU)  <b>Monitoring procedures:</b>            - Compur - KITA-123 S (549 129)  <b>BMGV:</b> --- <b>Other information:</b> --- <b>Content %:</b> 1-10         </p>
<p> <b>35</b> <b>Chemical Name</b> Isoalkanes (C9 - C12)  <b>WEL-TWA:</b> 1200 mg/m<sup>3</sup> (&gt;=C7 normal and branched chain alkanes)  <b>Monitoring procedures:</b>            - Draeger - Hydrocarbons 2/a (81 03 581)            - Draeger - Hydrocarbons 0.1%/c (81 03 571)            - Compur - KITA-187 S (551 174)  <b>BMGV:</b> --- <b>Other information:</b> --- <b>Content %:</b> 1-10         </p>
<p> <b>35</b> <b>Chemical Name</b> Hydrocarbons, C6,C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane  <b>WEL-TWA:</b> 600 mg/m<sup>3</sup> <b>WEL-STEL:</b> ---  <b>Monitoring procedures:</b>            - Compur - KITA-187 S (551 174)  <b>BMGV:</b> --- <b>Other information:</b> (OEL acc. to RCP-method, paragraphs 84-87, EH40)         </p>
<p> <b>35</b> <b>Chemical Name</b> Propane  <b>WEL-TWA:</b> 1000 ppm (ACGIH)  <b>Monitoring procedures:</b>            - Compur - KITA-125 SA (549 954)  <b>BMGV:</b> --- <b>Other information:</b> --- <b>Content %:</b> ---         </p>
<p> <b>35</b> <b>Chemical Name</b> Butane  <b>WEL-TWA:</b> 600 ppm (1450 mg/m<sup>3</sup>)  <b>Monitoring procedures:</b>            - Compur - KITA-221 SA (549 459)  <b>BMGV:</b> --- <b>Other information:</b> --- <b>Content %:</b> ---         </p>
<p> <b>35</b> <b>Chemical Name</b> Isobutane  <b>WEL-TWA:</b> 1000 ppm (EX) (ACGIH)  <b>Monitoring procedures:</b>            - Compur - KITA-113 SB(C) (549 368)  <b>BMGV:</b> --- <b>Other information:</b> --- <b>Content %:</b> ---         </p>

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BMGV: ---	Other information: ---
<b>Chemical Name</b>	Oil mist, mineral
WEL-TWA: 5 mg/m <sup>3</sup> (Mineral oil, excluding metal working fluids, ACGIH)	WEL-STEL: ---
Monitoring procedures:	- Draeger - Oil Mist 1/a (67 33 031)
BMGV: ---	Other information: ---
<b>Chemical Name</b>	Paraffin wax, fume
WEL-TWA: 2 mg/m <sup>3</sup>	WEL-STEL: 6 mg/m <sup>3</sup>
Monitoring procedures:	---
BMGV: ---	Other information: ---

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	26	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	71	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	44	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	330	mg/m <sup>3</sup>	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	214	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	214	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	643	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3000	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	432	mg/kg bw/d	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	214	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	214	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	643	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3000	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	432	mg/kg bw/d	

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Environment - sediment, freshwater	PNEL	0.681	mg/kg
Environment - soil	PNEL	0.045	mg/kg
Environment - sewage treatment plant	PNEL	160	mg/l
Environment - marine	PNEL	0.016	mg/l
Environment - water, sporadic (intermittent) release	PNEL	1.549	mg/l
Environment - sediment, marine	PNEL	0.069	mg/kg
Human - inhalation	DNEL	471	mg/m <sup>3</sup>
Human - inhalation	DNEL	1894	mg/m <sup>3</sup>

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m <sup>3</sup>	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m <sup>3</sup>	

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

**Area of application**

Consumer

Consumer

Consumer

Workers / employees

Workers / employees

Workers / employees

**Exposure route / Environmental compartment**

Human - dermal

Human - inhalation

Human - oral

Human - dermal

Human - dermal

Human - inhalation

**Effect on health**

Long term, systemic effects

Long term, systemic effects

Long term, systemic effects

Long term, systemic effects

Long term, systemic effects

Long term, systemic effects

**Descriptor**

DNEL

DNEL

DNEL

DNEL

DNEL

DNEL

**Value**

699

608

699

773

300

2035

**Unit**

mg/kg bw/day

mg/m<sup>3</sup>

mg/kg bw/day

mg/kg bw/day

mg/kg bw/day

mg/m<sup>3</sup>

**Note**

**WEL-TWA** = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(6) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE), (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE), (11) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE), (12) = Inhalable fraction, Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg C<sub>6</sub>G creatinine in urine (Directive 2004/37/CE), | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU), | BMGV = Biological monitoring guidance value EH40, BGV = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma, Sk = Can be absorbed through skin, Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repeated through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

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Keep away from food, drink and animal feedingsuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**Eye/face protection:**  
 Tight fitting protective goggles with side protection (EN 166).

**Skin protection - Hand protection:**  
 Chemical resistant protective gloves (EN 374).

**Recommended**  
 Protective nitrile gloves (EN 374).

**Permeation time (penetration time) in minutes:**  
 >480

**Minimum layer thickness in mm:**  
 0,7

**Protective hand cream: recommended.**  
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.

**Skin protection - Other:**  
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

**Respiratory protection:**  
 Normally not necessary.  
 If OES or MEL is exceeded,  
 Filter A2 P2 (EN 14387), code colour brown, white

**In case of emergency:**  
 Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)  
 Observe wearing time limitations for respiratory protection equipment.

**Thermal hazards:**  
 If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

**Additional information on hand protection - No tests have been performed.**  
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

**Selection of materials derived from glove manufacturer's indications.**  
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

**Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.**  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

**8.2.3 Environmental exposure controls**  
 No information available at present.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**  
 Physical state: Aerosol, Active substance, liquid.  
 Colour: Brown

**Odour:**  
 Characteristic

**Odour threshold:**  
 Not determined

**pH-value:**  
 Not determined

**Melting point/freezing point:**  
 Not determined

**Initial boiling point and boiling range:**  
 Not determined

**Flash point:**  
 n.a.

**Evaporation rate:**  
 Not determined

**Flammability (solid, gas):**  
 Not determined

**Lower explosive limit:**  
 1,4 Vol-%

**Upper explosive limit:**  
 32 Vol-%

**Vapour pressure:**  
 4400 hPa

**Vapour density (air = 1):**  
 Not determined

**Density:**  
 0,731 g/ml

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**Bulk density:**  
 n.a.  
**Solubility(ies):**  
 Not determined  
**Water solubility:**  
 Not miscible  
**Partition coefficient (n-octanol/water):**  
 Not determined  
**Auto-ignition temperature:**  
 235 °C (Ignition temperature)  
**Decomposition temperature:**  
 Not determined  
**Viscosity:**  
 Not determined  
**Explosive properties:**  
 Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.  
 No

**Oxidising properties:**  
 n.a.  
**9.2 Other information**  
**Miscibility:**  
 Not determined  
**Fat solubility / solvent:**  
 Not determined  
**Conductivity:**  
 Not determined  
**Surface tension:**  
 Not determined  
**Solvents content:**  
 Not determined

## SECTION 10: Stability and reactivity

**10.1 Reactivity**  
 The product has not been tested.  
**10.2 Chemical stability**  
 Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions**  
 Possible build up of explosive/highly flammable vapour/air mixture.

**10.4 Conditions to avoid**  
 Heating, open flame, ignition sources  
 Pressure increase will result in danger of bursting.

**10.5 Incompatible materials**  
 Avoid contact with strong oxidizing agents.

**10.6 Hazardous decomposition products**  
 No decomposition when used as directed.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**  
 Possibly more information on health effects, see Section 2.1 (classification).  
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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Endpoint	Value	Unit	Organism	Test method	Notes
Toxicity / effect						

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Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)
Acute toxicity, by dermal route:	LD50	>2920	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)
Aspiration hazard:					Yes

Pentane Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>16000	mg/kg	Rat		
Acute toxicity, by oral route:	LD50	5000	mg/kg	Mouse		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>100	mg/l/4h	Rat		
Skin corrosion/irritation:						Mild irritant. Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:						Mild irritant
Respiratory or skin sensitisation:						Not sensitising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						Yes
Symptoms:						drowsiness, vomiting, cramps, drowsiness, mucous membrane irritation

Dimethyl ether Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	164	mg/l/4h	Rat		
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin sensitisation:						No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 477 (Genetic Toxicology - Sex-Linked Recessive Lethal Test in Drosophila melanogaster)	Negative
Carcinogenicity:	NOAEC	47000	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEL	5000	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEC	47106	mg/kg	Rat	OECD 462 (Chronic Toxicity Studies)	Negative (2 a)
Aspiration hazard:						No

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Symptoms:						unconsciousness, headaches, mucous membrane irritation, dizziness, nausea and vomiting, frothable, gastrointestinal disturbances, respiratory distress, circulatory collapse
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Isoalkanes (C9 - C12) Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>10000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>3000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>6	mg/l/4h	Rat		
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Aspiration hazard:						Yes

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>20	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant (Analogous conclusion)
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Carcinogenicity:						Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT-RE):						Negative
Aspiration hazard:						Yes

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Symptoms:					drowsiness, unconsciousness heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting, Not irritant (respiratory tract).
Specific target organ toxicity - single exposure (STOT-SE), inhalative:					

Propane	Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:		LC50	658	mg/l/4h	Rat		Not irritant
Skin corrosion/irritation:							Not irritant
Serious eye damage/irritation:							Negative
Germ cell mutagenicity:							
Reproductive toxicity (Developmental toxicity):		NOAEC	21641	mg/l		OECD 471 (Bacterial Reverse Mutation Test) OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development Screening Test)	
Aspiration hazard:							No breathing difficulties, unconsciousness
Symptoms:							, frobsbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting,

Butane	Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:		LC50	658	mg/l/4h	Rat		Negative
Germ cell mutagenicity:						OECD 471 (Bacterial Reverse Mutation Test)	
Aspiration hazard:							No ataxia, breathing difficulties, drowsiness, unconsciousness
Symptoms:							, frobsbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting,

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Isobutane	Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:		LC50	658	mg/l/4h	Rat		Not irritant
Serious eye damage/irritation:					Rabbit		Negative
Germ cell mutagenicity:						OECD 471 (Bacterial Reverse Mutation Test)	
Aspiration hazard:							No unconsciousness
Symptoms:							, frobsbite, headaches, cramps, dizziness, nausea and vomiting,

### SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Seiffert 500 mL	Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Art.: 6135	12.1. Toxicity to fish:							n.d.a.
	12.1. Toxicity to daphnia:							n.d.a.
	12.1. Toxicity to algae:							n.d.a.
	12.2. Persistence and degradability:							Not biodegradable isolate as much as possible with an oil separator.
	12.3. Bioaccumulative potential:							n.d.a.
	12.4. Mobility in soil:							Product is slightly volatile, n.d.a.
	12.5. Results of PBT and vPvB assessment effects:							n.d.a.
	12.6. Other adverse effects:							According to the recipe, contains no AOX.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
	12.1. Toxicity to daphnia:	EL50	48h	10-22	mg/l	Daphnia magna		Analogous conclusion
	12.2. Persistence and degradability:		28d	74,7	%			

Pentane	Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
	12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
	12.1. Toxicity to fish:	LC50	96h	9,87	mg/l	Saimo gairdneri		
	12.1. Toxicity to fish:	LC50	96h	9,87	mg/l	Oncorhynchus mykiss		
	12.1. Toxicity to fish:	LC50	96h	9,99	mg/l	Lepomis macrochirus		
	12.1. Toxicity to daphnia:	EC50	48h	9,74	mg/l	Daphnia magna		
	12.2. Persistence and degradability:		8d	70	%			

Dimethyl ether	Log Pow	3,39		calculated value
Toxicity / effect	Endpoint	Time	Value	Unit
12.1. Toxicity to fish:	LC0	96h	2695	mg/l
12.1. Toxicity to fish:	LC50	96h	3062	mg/l
12.1. Toxicity to fish:	LC50	96h	>4.1	mg/l
12.1. Toxicity to daphnia:	EC50	48h	>4.4	mg/l
12.1. Toxicity to algae:	EC50	96h	154.9	mg/l
12.2. Persistence and degradability:		28d	5	%
12.3. Bioaccumulative potential:	Log Pow		-0,07	
12.4. Mobility in soil:	H (Henry)		518,6	Pa·m <sup>3</sup> /mol
12.5. Results of PBT and vPvB assessment				
Toxicity to bacteria:	EC10		>1600	mg/l
Other information:				
Water solubility:			45,60	mg/l
12.3. Bioaccumulative potential:	Log Pow		-0,07	
12.4. Mobility in soil:	H (Henry)		518,6	Pa·m <sup>3</sup> /mol
12.5. Results of PBT and vPvB assessment				
Toxicity to bacteria:	EC10		>1600	mg/l
Other information:				
Water solubility:			45,60	mg/l
12.1. Toxicity to fish:	NOEC/NOEL	21d	0,17	mg/l
12.1. Toxicity to daphnia:	NOEC/LOEL	21d	0,32	mg/l
12.1. Toxicity to fish:	NOEC/NOEL	28d	2,045	mg/l
12.1. Toxicity to fish:	NOELR	28d	2,04	mg/l
12.1. Toxicity to fish:	LC50	96h	11,4	mg/l
12.1. Toxicity to fish:	LL50	96h	11,4	mg/l
12.1. Toxicity to daphnia:	EC50	48h	3	mg/l
12.1. Toxicity to daphnia:	NOELR	48h	2,1	mg/l
12.1. Toxicity to algae:	EC50	72h	30	mg/l

12.2. Persistence and degradability:	28d	81	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable, Analogous conclusion
12.3. Bioaccumulative potential:	BCF		242,253			
12.4. Mobility in soil:						Adsorption in ground. Product is slightly volatile.
Other information:	AOX		0	%		
Propane	Endpoint	Time	Value	Unit	Organism	Notes
12.3. Bioaccumulative potential:	Log Pow		2,28			A notable biological accumulation potential is not to be expected (LogPow 1-5).
12.5. Results of PBT and vPvB assessment						No PBT substance. No vPvB substance
Butane	Endpoint	Time	Value	Unit	Organism	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		
12.3. Bioaccumulative potential:	Log Pow		2,98			A notable biological accumulation potential is not to be expected (LogPow 1-5).
12.5. Results of PBT and vPvB assessment						No PBT substance. No vPvB substance
Isobutane	Endpoint	Time	Value	Unit	Organism	Notes
12.3. Bioaccumulative potential:						A notable biological accumulation potential is not to be expected (LogPow 1-5).
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l		
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l		
12.2. Persistence and degradability:						
12.5. Results of PBT and vPvB assessment						Readily biodegradable substance. No vPvB substance

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods For the substance / mixture / residual amounts**

EC disposal code no.:  
 The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be



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allocated under certain circumstances, (2014/955/EU)  
 07 06 99 wastes not otherwise specified  
 16 05 04 gases in pressure containers (including halons) containing hazardous substances  
**Recommendation:**  
 Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 E.g. suitable incineration plant.  
 Do not dispose of with household waste.

#### For contaminated packing material

Pay attention to local and national official regulations.  
 15 01 04 metallic packaging  
 15 01 10 packaging containing residues of or contaminated by hazardous substances  
 Do not perforate, cut up or weld undecanted container.

### SECTION 14: Transport information

#### General statements

14.1. UN number: 1950

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:  
 UN 1950 / AEROSOLS  
 14.3. Transport hazard class(es):  
 14.4. Packing group:  
 Classification code:  
 LQ:  
 14.5. Environmental hazards:  
 Tunnel restriction code:



2.1  
 -  
 5F  
 1L  
 D

#### Transport by sea (IMDG-code)

AEROSOLS  
 14.3. Transport hazard class(es):  
 14.4. Packing group:  
 EMS:  
 Marine Pollutant:  
 14.5. Environmental hazards:



2.1  
 -  
 F-D, S-U  
 n.a  
 Not applicable

#### Transport by air (IATA)

Aerosols, flammable  
 14.3. Transport hazard class(es):  
 14.4. Packing group:  
 14.5. Environmental hazards:



2.1  
 -  
 Not applicable

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

### SECTION 15: Regulatory information

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

Observe restrictions:  
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 Comply with trade association/occupational health regulations.

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Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P3a	1.1.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr.	Dangerous substances	Notes to Annex I	Qualifying quantity (tonnes) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) for the application of - Upper-tier requirements
18	Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas	19	50	200

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

507 g/l

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### SECTION 16: Other information

Revised sections:  
 Employee training in handling dangerous goods is required.  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

3

#### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 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.  
 H220 Extremely flammable gas.  
 H412 Harmful to aquatic life with long lasting effects.  
 H413 May cause long lasting harmful effects to aquatic life.

Asp. Tox. — Aspiration hazard  
 Aquatic Chronic — Hazardous to the aquatic environment • chronic

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Aerosol — Aerosols  
 STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
 Flam. Liq. — Flammable liquid  
 Flam. Gas — Flammable gases - Flammable gas  
 Skin Irrit. — Skin irritation

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AOX Adsorbable organic halogen compounds  
 approx. approximately  
 Art., Art. no. Article number  
 ASTM ASTM International (American Society for Testing and Materials)  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EC European Community  
 ECHA European Chemicals Agency  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 etc. et cetera  
 EU European Union  
 EVAL Ethylene-vinyl alcohol copolymer  
 Fax Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 ppm parts per million  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

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 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SVHC Substances of Very High Concern  
 Tel Telephone  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VOC Volatile organic compounds  
 vPVB very persistent and very bioaccumulative  
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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