

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - IT



## OKS 511

|         |                |                                 |             |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 10.08.2018  | Print Date: |
| 2.2     | 13.06.2019     | Date of first issue: 09.07.2016 | 13.06.2019  |

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

#### 1.1 Product identifier

Product name : OKS 511

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

Use of the Sub-stance/Mixture : Lubricant

Recommended restrictions on use : Restricted to professional users.

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

Company : OKS Spezialschmierstoffe GmbH  
Ganghoferstr. 47  
D-82216 Maisach-Gernlinden  
Tel.: +49 8142 3051 500  
Fax.: +49 8142 3051 599

E-mail address of person responsible for the SDS : mcm@oks-germany.com  
National contact :

#### 1.4 Emergency telephone number

Emergency telephone number : 02/66101029 (Ospedale Niguarda - Milano)  
0382/24444 (Istituto Maugeri - Pavia)  
055/7947819 (Ospedale Careggi - Firenze)  
06/3054343 (Policlinico Gemelli - Roma)  
081/7472870 (Ospedale Cardarelli - Napoli)  
035/269469 - 800.883300 (Ospedali Riuniti - Bergamo)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

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|  |  |
|--|--|
| Skin irritation, Category 2  | H315: Causes skin irritation.                            |
| Serious eye damage, Category 1   | H318: Causes serious eye damage.                         |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.                 |
| Aspiration hazard, Category 1  | H304: May be fatal if swallowed and enters airways.      |
| Long-term (chronic) aquatic hazard, Category 3                                       | H412: Harmful to aquatic life with long lasting effects. |

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :    

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

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P331 POISON CENTER/doctor.  
Do NOT induce vomiting.

### Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha butan-1-ol

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Active substance with propellant  
Solvent  
Silicone resin  
graphite  
Molybdenum disulfide

### Hazardous components

| Chemical name   | CAS-No.<br>EC-No.<br><br>Index-No.<br>Registration number         | Classification   | Concentration limits<br>M-Factor<br>Notes | Concentration<br>(% w/w) |
|---|---|--|---|--------------------------|
| Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | 64742-49-0<br>265-151-9<br><br>649-328-00-1                       | Flam. Liq.2; H225<br>Skin Irrit.2; H315<br>STOT SE3; H336<br>Asp. Tox.1; H304<br>Aquatic Chronic2;<br>H411 | Note P                                    | >= 10 - < 20             |
| propane   | 74-98-6<br>200-827-9<br><br>601-003-00-5<br>01-2119486944-21-XXXX | Flam. Gas1; H220<br>Press. GasCompr. Gas; H280   | Note U (table 3.1)                        | >= 10 - < 20             |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics                 | Not Assigned<br>927-241-2<br><br>01-2119471843-32-xxxx            | Flam. Liq.3; H226<br>Asp. Tox.1; H304<br>Aquatic Chronic3;<br>H412   |   | >= 2,5 - < 10            |

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|--|---|--|-------------------------------|------------------|
| xylene                                       | 1330-20-7<br>215-535-7<br><br>601-022-00-9<br>01-2119488216-32-XXXX | Flam. Liq.3; H226<br>Acute Tox.4; H332<br>Acute Tox.4; H312<br>Skin Irrit.2; H315<br>Eye Irrit.2; H319<br>STOT SE3; H335<br>STOT RE2; H373<br>STOT RE2; H373<br>Asp. Tox.1; H304 | Note C                        | $\geq 1 - < 10$  |
| ethylbenzene                                 | 100-41-4<br>202-849-4<br><br>601-023-00-4<br>01-2119489370-35-XXXX  | Flam. Liq.2; H225<br>Acute Tox.4; H332<br>STOT RE2; H373<br>Asp. Tox.1; H304<br>Aquatic Chronic3;<br>H412  |                               | $\geq 1 - < 2,5$ |
| butan-1-ol                                   | 71-36-3<br>200-751-6<br><br>603-004-00-6<br>01-2119484630-38-XXXX   | Flam. Liq.3; H226<br>Acute Tox.4; H302<br>Skin Irrit.2; H315<br>Eye Dam.1; H318<br>STOT SE3; H336<br>STOT SE3; H335  |                               | $\geq 1 - < 3$   |
| Substances with a workplace exposure limit : |   |  |                               |                  |
| butane                                       | 106-97-8<br>203-448-7<br><br>601-004-00-0                           | Flam. Gas1; H220<br>Press. GasCompr.<br>Gas; H280  | Note U (table<br>3.1), Note C | $\geq 20 - < 30$ |
| isobutane                                    | 75-28-5<br>200-857-2<br><br>601-004-00-0<br>01-2119485395-27-XXXX   | Flam. Gas1; H220<br>Press. GasCompr.<br>Gas; H280  | Note U (table<br>3.1), Note C | $\geq 10 - < 20$ |
| molybdenum disulphide                        | 1317-33-5<br>215-263-9  |  |                               | $\geq 1 - < 10$  |
| n-butyl acetate                              | 123-86-4<br>204-658-1<br><br>607-025-00-1<br>01-2119485493-29-XXXX  | Flam. Liq.3; H226<br>STOT SE3; H336  |                               | $\geq 1 - < 10$  |
| Graphite                                     | 7782-42-5<br>231-955-3  |  |                               | $\geq 1 - < 10$  |

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- If inhaled : Call a physician or poison control centre immediately.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Get medical attention immediately.
- If swallowed : Move the victim to fresh air.  
If accidentally swallowed obtain immediate medical attention.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

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

- Symptoms : Inhalation may provoke the following symptoms:  
Unconsciousness  
Dizziness  
Drowsiness  
Headache  
Nausea  
Tiredness  
Skin contact may provoke the following symptoms:  
Erythema
- Aspiration may cause pulmonary oedema and pneumonitis.

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Risks : Central nervous system depression  
Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.  
Causes skin irritation.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon oxides  
Metal oxides  
Sulphur oxides

Fire Hazard  
Do not let product enter drains.  
Contains gas under pressure; may explode if heated.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Cool containers/tanks with water spray.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not breathe vapours or spray mist.

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Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Refer to protective measures listed in sections 7 and 8.  
Only qualified personnel equipped with suitable protective equipment may intervene.

### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.  
Non-sparking tools should be used.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not use in areas without adequate ventilation.  
Do not breathe vapours or spray mist.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Keep away from fire, sparks and heated surfaces.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not use sparking tools.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

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

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular national regulations.

### 7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components          | CAS-No.   | Value type (Form of exposure) | Control parameters               | Basis                      |
|---------------------|---|-------------------------------|----------------------------------|----------------------------|
| xylene              | 1330-20-7   | TWA                           | 50 ppm<br>221 mg/m <sup>3</sup>  | IT OEL<br>(2004-03-10)     |
| Further information | The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin. |                               |                                  |                            |
|                     |   | STEL                          | 100 ppm<br>442 mg/m <sup>3</sup> | IT OEL<br>(2004-03-10)     |
| Further information | The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin. |                               |                                  |                            |
|                     |   | TWA                           | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC<br>(2000-06-16) |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative   |                               |                                  |                            |
|                     |   | STEL                          | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC<br>(2000-06-16) |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative   |                               |                                  |                            |
| ethylbenzene        | 100-41-4  | TWA                           | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC<br>(2000-06-16) |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative   |                               |                                  |                            |
|                     |   | STEL                          | 200 ppm<br>884 mg/m <sup>3</sup> | 2000/39/EC<br>(2000-06-16) |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative   |                               |                                  |                            |
|                     |   | TWA                           | 100 ppm<br>442 mg/m <sup>3</sup> | IT OEL<br>(2004-03-10)     |
| Further information | The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin. |                               |                                  |                            |
|                     |   | STEL                          | 200 ppm<br>884 mg/m <sup>3</sup> | IT OEL<br>(2004-03-10)     |
| Further information | The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin. |                               |                                  |                            |



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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name  | End Use   | Exposure routes | Potential health effects              | Value                  |
|---|-----------|-----------------|---------------------------------------|------------------------|
| Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | Workers   | Inhalation      | Long-term systemic effects            | 1300 mg/m <sup>3</sup> |
|   | Workers   | Inhalation      | Long-term local effects               | 840 mg/m <sup>3</sup>  |
| n-butyl acetate   | Workers   | Inhalation      | Acute local effects                   | 1100 mg/m <sup>3</sup> |
|   | Workers   | Inhalation      | Long-term systemic effects            | 300 mg/m <sup>3</sup>  |
|   | Workers   | Inhalation      | Acute systemic effects                | 600 mg/m <sup>3</sup>  |
|   | Workers   | Dermal          | Long-term local effects               | 11 mg/cm <sup>2</sup>  |
| xylene  | Workers   | Inhalation      | Long-term exposure, Systemic effects  | 77 mg/m <sup>3</sup>   |
|   | Workers   | Inhalation      | Short-term exposure, Systemic effects | 289 mg/m <sup>3</sup>  |
|   | Workers   | Skin contact    | Long-term exposure, Systemic effects  | 180 mg/kg              |
|   | Consumers | Inhalation      | Long-term exposure, Systemic effects  | 14,8 mg/m <sup>3</sup> |
|   | Consumers | Inhalation      | Short-term exposure, Systemic effects | 174 mg/m <sup>3</sup>  |
|   | Consumers | Ingestion       | Long-term exposure, Systemic effects  | 1,6 mg/kg              |
| ethylbenzene  | Workers   | Skin contact    | Long-term systemic effects            | 180 mg/kg bw/day       |
|   | Workers   | Inhalation      | Long-term systemic effects            | 77 mg/m <sup>3</sup>   |
|   | Workers   | Inhalation      | Acute local effects                   | 293 mg/m <sup>3</sup>  |
|   | Workers   | Inhalation      | Long-term local effects               | 310 mg/m <sup>3</sup>  |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name  | Environmental Compartment                            | Value        |
|-----------------|--|--------------|
| n-butyl acetate | Fresh water  | 0,18 mg/l    |
|                 | Marine water   | 0,018 mg/l   |
|                 | Microbiological Activity in Sewage Treatment Systems | 35,6 mg/l    |
|                 | Fresh water sediment                                 | 0,981 mg/kg  |
|                 | Marine sediment                                      | 0,0981 mg/kg |
|                 | Soil   | 0,09 mg/kg   |
| xylene          | Fresh water  | 0,327 mg/l   |
|                 | Marine water   | 0,327 mg/l   |

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|              | Fresh water sediment                                 | 12,46 mg/l                    |
|              | Marine sediment                                      | 12,46 mg/l                    |
|              | Soil   | 2,31 mg/kg                    |
| ethylbenzene | Fresh water  | 0,1 mg/l                      |
|              | Marine water   | 0,01 mg/l                     |
|              | Intermittent use/release                             | 0,1 mg/l                      |
|              | Microbiological Activity in Sewage Treatment Systems | 9,6 mg/l                      |
|              | Fresh water sediment                                 | 13,7 mg/kg                    |
|              | Marine sediment                                      | 1,37 mg/kg                    |
|              | Soil   | 2,68 mg/kg                    |
|              | Oral   | 20 mg/kg                      |
| butan-1-ol   | Fresh water  | 0,082 mg/l                    |
|              | Marine water   | 0,008 mg/l                    |
|              | Intermittent use/release                             | 2,25 mg/l                     |
|              | Microbiological Activity in Sewage Treatment Systems | 2476 mg/l                     |
|              | Fresh water sediment                                 | 0,324 mg/kg dry weight (d.w.) |
|              | Marine sediment                                      | 0,032 mg/kg dry weight (d.w.) |
|              | Soil   | 0,017 mg/kg dry weight (d.w.) |

### 8.2 Exposure controls

#### Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.  
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

#### Hand protection

Material : butyl-rubber  
Protective index : Class 1

Remarks : Wear protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Short term only

Filter type : Filter type A-P

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Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Appearance                          | : aerosol                           |
| Colour                              | : black                             |
| Odour                               | : characteristic                    |
| Odour Threshold                     | : No data available                 |
| pH                                  | : Not applicable                    |
| Melting point/range                 | : No data available                 |
| Boiling point/boiling range         | : -161 °C<br>(1.013 hPa)            |
| Flash point                         | : -60 °C<br>Method: Abel-Pensky     |
| Evaporation rate                    | : No data available                 |
| Flammability (solid, gas)           | : Extremely flammable aerosol.      |
| Upper explosion limit               | : 10,9 %(V)                         |
| Lower explosion limit               | : 0,6 %(V)                          |
| Vapour pressure                     | : 3.600 hPa (20 °C)                 |
| Relative vapour density             | : No data available                 |
| Density                             | : 0,70 g/cm <sup>3</sup><br>(20 °C) |
| Bulk density                        | : No data available                 |
| Solubility(ies)<br>Water solubility | : insoluble                         |

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Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : < 20,5 mm<sup>2</sup>/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

### 9.2 Other information

Sublimation point : No data available

Metal corrosion rate : Not corrosive to metals

Self-ignition : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

###### Product:

- Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method
- Remarks: Effects due to ingestion may include:
- Symptoms: Central nervous system depression
- Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method
- Remarks: Respiration of solvent vapour may cause dizziness.
- Symptoms: Inhalation may provoke the following symptoms:,  
Respiratory disorder, Dizziness, Drowsiness, Vomiting, Fa-  
tigue, Vertigo, Central nervous system depression
- Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method
- Symptoms: Redness, Local irritation

###### Components:

##### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes
- Acute inhalation toxicity : LC50 (Rat): > 25,2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhala-  
tion toxicity
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal  
toxicity

##### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

- Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

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### **xylene:**

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

### **ethylbenzene:**

Acute oral toxicity : LD50 (Rat): 3.500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 17,2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 15.400 mg/kg

### **butan-1-ol:**

Acute oral toxicity : LD50 (Rat): 2.292 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 17,76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 3.430 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **butane:**

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

### **isobutane:**

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

### **molybdenum disulphide:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

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Acute dermal toxicity : LD50 (Rat): > 16.000 mg/kg

### **n-butyl acetate:**

Acute oral toxicity : LD50 (Rat): 10.768 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 21 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 17.600 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Irritating to skin.

#### **Components:**

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Species: Rabbit  
Assessment: Irritating to skin.  
Method: OECD Test Guideline 404  
Result: Irritating to skin.  
GLP: yes

#### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Result: Repeated exposure may cause skin dryness or cracking.

#### **xylene:**

Species: Rabbit  
Assessment: Irritating to skin.  
Result: Irritating to skin.

#### **ethylbenzene:**

Species: Rabbit  
Result: Mild skin irritation

#### **butan-1-ol:**

Species: Rabbit  
Assessment: Irritating to skin.  
Result: Irritating to skin.

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### **molybdenum disulphide:**

Assessment: No skin irritation  
Result: No skin irritation

### **n-butyl acetate:**

Species: Rabbit  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: Repeated exposure may cause skin dryness or cracking.

### **Serious eye damage/eye irritation**

#### **Product:**

Result: Risk of serious damage to eyes.  
Remarks: Irritating to eyes.

Remarks: Risk of serious damage to eyes.

#### **Components:**

### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: yes

### **xylene:**

Species: Rabbit  
Assessment: Irritating to eyes.  
Result: Irritating to eyes.

### **ethylbenzene:**

Species: Rabbit  
Assessment: No eye irritation  
Result: No eye irritation

### **butan-1-ol:**

Species: Rabbit  
Assessment: Risk of serious damage to eyes.  
Method: OECD Test Guideline 405  
Result: Risk of serious damage to eyes.  
GLP: yes

### **molybdenum disulphide:**

Assessment: No eye irritation  
Result: No eye irritation



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### **n-butyl acetate:**

Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: yes

### **Respiratory or skin sensitisation**

#### **Product:**

Remarks: This information is not available.

#### **Components:**

### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Test Type: Buehler Test  
Species: Guinea pig  
Assessment: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
GLP: yes

### **xylene:**

Species: Mouse  
Assessment: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 429  
Result: Did not cause sensitisation on laboratory animals.

### **ethylbenzene:**

Assessment: Does not cause skin sensitisation.  
Result: Does not cause skin sensitisation.

### **butan-1-ol:**

Species: Mouse  
Assessment: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 429  
Result: Did not cause sensitisation on laboratory animals.

### **molybdenum disulphide:**

Assessment: Does not cause skin sensitisation.  
Result: Does not cause skin sensitisation.

### **n-butyl acetate:**

Test Type: Maximisation Test  
Exposure routes: Dermal  
Species: Guinea pig  
Assessment: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406

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Result: Does not cause skin sensitisation.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Components:

#### **xylene:**

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### **ethylbenzene:**

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### **molybdenum disulphide:**

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

#### **n-butyl acetate:**

Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

: Test Type: Chromosome aberration test in vitro  
Species: Chinese hamster cells  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.

### Carcinogenicity

#### Product:

Remarks: No data available

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### Components:

#### **xylene:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **ethylbenzene:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **molybdenum disulphide:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

#### **n-butyl acetate:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### Components:

#### **xylene:**

Reproductive toxicity - Assessment : No toxicity to reproduction  
No toxicity to reproduction

#### **ethylbenzene:**

Reproductive toxicity - Assessment : No toxicity to reproduction  
No toxicity to reproduction

#### **n-butyl acetate:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: inhalation (vapour)  
General Toxicity - Parent: NOAEC: 750 mg/l  
General Toxicity F1: NOAEC: 750 mg/l  
General Toxicity F2: NOAEC: 750 mg/l  
Method: OECD Test Guideline 416  
Result: Embryotoxic effects and adverse effects on the offspring were detected.

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Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.  
No toxicity to reproduction

### STOT - single exposure

#### Components:

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Exposure routes: Inhalation  
Target Organs: Central nervous system  
Assessment: May cause drowsiness or dizziness.

#### **xylene:**

Exposure routes: Inhalation  
Target Organs: Respiratory system  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### **ethylbenzene:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **butan-1-ol:**

Exposure routes: Inhalation  
Target Organs: Respiratory system  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Exposure routes: Inhalation  
Target Organs: Central nervous system  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### **molybdenum disulphide:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **n-butyl acetate:**

Exposure routes: Inhalation  
Target Organs: Central nervous system  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

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### STOT - repeated exposure

#### Components:

##### **xylene:**

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Exposure routes: Ingestion

Target Organs: Liver, Kidney

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

##### **ethylbenzene:**

Exposure routes: Inhalation

Target Organs: hearing organs

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

##### **butan-1-ol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **molybdenum disulphide:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **n-butyl acetate:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Product:

Remarks: This information is not available.

#### Components:

##### **n-butyl acetate:**

Species: Rat

NOAEL: 125 mg/kg

Application Route: Oral

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### Aspiration toxicity

#### **Product:**

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

#### **Components:**

##### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

May be fatal if swallowed and enters airways.

##### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

May be fatal if swallowed and enters airways.

##### **xylene:**

May be fatal if swallowed and enters airways.

##### **ethylbenzene:**

May be fatal if swallowed and enters airways.

##### **butan-1-ol:**

No aspiration toxicity classification

##### **n-butyl acetate:**

No aspiration toxicity classification

### Further information

#### **Product:**

Remarks: Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

#### **Components:**

##### **molybdenum disulphide:**

Remarks: Information given is based on data on the components and the toxicology of similar products.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

- Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available
- Toxicity to algae : Remarks: No data available
- Toxicity to microorganisms : Remarks: No data available

##### Components:

##### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3,1 mg/l  
Exposure time: 72 h  
Test Type: static test

##### **Ecotoxicology Assessment**

- Short-term (acute) aquatic hazard : Toxic to aquatic life.
- Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

##### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

##### **Ecotoxicology Assessment**

- Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

##### **xylene:**

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- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,82 mg/l  
Exposure time: 48 h  
Test Type: flow-through test
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): > 157 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
GLP:
- Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 2,90 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: static test  
Method: OECD Test Guideline 211  
GLP: yes

### ethylbenzene:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,4 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): 4,6 mg/l  
Exposure time: 72 h  
Test Type: static test
- Toxicity to fish (Chronic toxicity) : NOEC: 3,3 mg/l  
Exposure time: 96 d
- Toxicity to daphnia and other : NOEC: 0,96 mg/l



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aquatic invertebrates (Chronic toxicity) : Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)  
Test Type: semi-static test

### butan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.376 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.328 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 225 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC10 (Pseudomonas putida): 2.476 mg/l  
Exposure time: 17 h  
Test Type: static test  
Method: DIN 38 412 Part 8  
GLP:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 4,1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

### molybdenum disulphide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h

### n-butyl acetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 18 mg/l  
Exposure time: 96 h

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Test Type: flow-through test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 44 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 397 mg/l  
Exposure time: 72 h  
Test Type: static test

Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h  
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 23 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Reproduction Test  
GLP: yes

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 90,35 %  
Exposure time: 28 d

##### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Biodegradability : Result: rapidly biodegradable

##### **xylene:**

Biodegradability : Result: Readily biodegradable.

##### **ethylbenzene:**

Biodegradability : Result: Readily biodegradable.

##### **butan-1-ol:**

Biodegradability : Test Type: aerobic

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Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: > 92 %  
Exposure time: 28 d

### **n-butyl acetate:**

Biodegradability : Test Type: Primary biodegradation  
Result: rapidly biodegradable  
Biodegradation: 83 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

## 12.3 Bioaccumulative potential

### **Product:**

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### **Components:**

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Partition coefficient: n-octanol/water : log Pow: 3,4 - 5,2

#### **propane:**

Partition coefficient: n-octanol/water : log Pow: 2,36

#### **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

#### **xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 25,9

Partition coefficient: n-octanol/water : log Pow: 2,77 - 3,15

#### **ethylbenzene:**

Bioaccumulation : Bioconcentration factor (BCF): 1

Partition coefficient: n-octanol/water : log Pow: 3,6 (20 °C)

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### butan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 1 (25 °C)  
pH: 7  
Method: OECD Test Guideline 117  
GLP: yes

### butane:

Partition coefficient: n-octanol/water : log Pow: 2,89  
Method: OECD Test Guideline 107

### isobutane:

Partition coefficient: n-octanol/water : log Pow: 2,88  
Method: OECD Test Guideline 107

### n-butyl acetate:

Partition coefficient: n-octanol/water : log Pow: 2,3 (25 °C)  
pH: 7  
Method: OECD Test Guideline 117  
GLP: yes

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### Components:

#### xylene:

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

#### ethylbenzene:

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

#### n-butyl acetate:

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Assessment : Non-classified PBT substance. Non-classified vPvB substance.

### 12.6 Other adverse effects

**Product:**

Additional ecological information : Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Offer empty spray cans to an established disposal company.  
Pressurized container: Do not pierce or burn, even after use.

The following Waste Codes are only suggestions:

## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 1950

IMDG : UN 1950

IATA : UN 1950

### 14.2 UN proper shipping name

ADR : AEROSOLS

IMDG : AEROSOLS

IATA : Aerosols, flammable

### 14.3 Transport hazard class(es)

ADR : 2

IMDG : 2.1

IATA : 2.1

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### 14.4 Packing group

#### ADR

Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

#### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Division 2.1 - Flammable gases

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Division 2.1 - Flammable gases

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

#### IATA (Passenger)

Environmentally hazardous : no

#### IATA (Cargo)

Environmentally hazardous : no

### 14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH),

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REACH - List of substances subject to authorisation (Annex XIV) : Article 57).  
: Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha (29, 28)

P2

P5c

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|     |   | Quantity 1 | Quantity 2 |
|-----|---|------------|------------|
| P3a | FLAMMABLE AEROSOLS  | 150 t      | 500 t      |
| 34  | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) | 2.500 t    | 25.000 t   |

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 83,69 %  
Volatile CMR compounds: 14,53 %

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations,

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where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Legislative Decree April 9, 2008, 81 (Implementation of Article 1 of the Law of 3 August 2007, n. 123, concerning the protection of health and safety in the workplace.) and subsequent amendments

Legislative Decree April 3, 2006, n.152, (Environmental standards) and subsequent amendments

Legislative Decree February 6, 2009, 21 (Regulations for the execution of the provisions laid down in Regulation (EC) no. 648/2004 on detergents)

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

|      |   |
|------|---|
| H220 | : Extremely flammable gas.  |
| H225 | : Highly flammable liquid and vapour.   |
| H226 | : Flammable liquid and vapour.  |
| H280 | : Contains gas under pressure; may explode if heated.                           |
| 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 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 if inhaled. |
| H411 | : Toxic to aquatic life with long lasting effects.                              |
| H412 | : Harmful to aquatic life with long lasting effects.                            |

### Full text of other abbreviations



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- Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- Note U (table 3.1) : When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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### Further information

#### Classification of the mixture:

|                   |            |
|-------------------|------------|
| Aerosol 1         | H222, H229 |
| Skin Irrit. 2     | H315       |
| Eye Dam. 1        | H318       |
| STOT SE 3         | H336       |
| Asp. Tox. 1       | H304       |
| Aquatic Chronic 3 | H412       |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Based on product data or assessment |
| Calculation method                  |
| Based on product data or assessment |
| Calculation method                  |

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