

**Safety Data Sheet**

according to UK REACH Regulation

**Granit Starthilfespray Mitte 400ml**

Revision date: 05.01.2023

Product code: 11ACO320320004

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Granit Starthilfespray Mitte 400ml

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet**

|               |                      |                               |
|---------------|----------------------|-------------------------------|
| Company name: | Wilhelm Fricke SE    |                               |
| Street:       | Zum Kreuzkamp 7      |                               |
| Place:        | D-27404 Heeslingen   |                               |
| Telephone:    | +49 (4281) 712 – 488 | Telefax: +49 (4281) 712 – 233 |
| e-mail:       | info@fricke.de       |                               |
| Internet:     | www.fricke.de        |                               |

**1.4. Emergency telephone number:** 111 NHS (National Health Service)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Aerosol 1; H222-H229  
Asp. Tox. 1; H304  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
STOT SE 3; H336  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

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

**Signal word:** Danger**Pictograms:****Hazard statements**

|      |  |
|------|--|
| H222 | Extremely flammable aerosol.                       |
| H229 | Pressurised container: May burst if heated.        |
| H315 | Causes skin irritation.                            |
| H319 | Causes serious eye irritation.                     |
| H336 | May cause drowsiness or dizziness.                 |
| H412 | Harmful to aquatic life with long lasting effects. |

**Precautionary statements**

|      |   |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand.                 |
| P102 | Keep out of reach of children.  |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No |

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|                |  |
|----------------|--|
|                | smoking.   |
| P211           | Do not spray on an open flame or other ignition source.  |
| P251           | Do not pierce or burn, even after use.   |
| P261           | Avoid breathing spray.   |
| P280           | Wear protective gloves and eye/face protection.  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P312           | Call a POISON CENTER/doctor if you feel unwell.  |
| P410+P412      | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.   |
| P501           | Dispose of contents/container according to the official regulations.   |

#### **2.3. Other hazards**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.  
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

#### **3.2. Mixtures**

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#### Hazardous components

| CAS No     | Chemical name  |              |                  | Quantity    |
|------------|--|--------------|------------------|-------------|
|            | EC No  | Index No     | REACH No         |             |
|            | Classification (GB CLP Regulation)   |              |                  |             |
| 75-28-5    | isobutane  |              |                  | 25 - < 50 % |
|            | 200-857-2  | 601-004-00-0 | 01-2119485395-27 |             |
|            | Flam. Gas 1, Liquefied gas; H220 H280  |              |                  |             |
| 1634-04-4  | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane   |              |                  | 20 - < 25 % |
|            | 216-653-1  | 603-181-00-X |                  |             |
|            | Flam. Liq. 2, Skin Irrit. 2; H225 H315   |              |                  |             |
| 67-64-1    | Acetone  |              |                  | 5 - < 10 %  |
|            | 200-662-2  | 606-001-00-8 | 01-2119471330-49 |             |
|            | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066                                     |              |                  |             |
|            | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane                               |              |                  | 5 - < 10 %  |
|            | 921-024-6  |              | 01-2119475514-35 |             |
|            | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 |              |                  |             |
| 64742-49-0 | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics   |              |                  | 5 - < 10 %  |
|            | 927-510-4  |              | 01-2119475515-33 |             |
|            | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 |              |                  |             |
| 74-98-6    | propane  |              |                  | 5 - < 10 %  |
|            | 200-827-9  | 601-003-00-5 | 01-2119486944-21 |             |
|            | Flam. Gas 1, Liquefied gas; H220 H280  |              |                  |             |
| 106-97-8   | butane   |              |                  | 1 - < 3 %   |
|            | 203-448-7  | 601-004-00-0 | 01-2119474691-32 |             |
|            | Flam. Gas 1, Liquefied gas; H220 H280  |              |                  |             |
| 67-56-1    | methanol   |              |                  | 0.1 - < 1 % |
|            | 200-659-6  | 603-001-00-X |                  |             |
|            | Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370      |              |                  |             |

Full text of H and EUH statements: see section 16.

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#### Specific Conc. Limits, M-factors and ATE

| CAS No     | EC No     | Chemical name   | Quantity    |
|------------|-----------|---|-------------|
|            |           | Specific Conc. Limits, M-factors and ATE  |             |
| 1634-04-4  | 216-653-1 | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane  | 20 - < 25 % |
|            |           | inhalation: LC50 = 85 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3866 mg/kg  |             |
| 67-64-1    | 200-662-2 | Acetone   | 5 - < 10 %  |
|            |           | inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg   |             |
|            | 921-024-6 | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane  | 5 - < 10 %  |
|            |           | inhalation: LC50 = > 25,2 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = > 5000 mg/kg   |             |
| 64742-49-0 | 927-510-4 | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  | 5 - < 10 %  |
|            |           | inhalation: LC50 = > 23,3 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = 5500 mg/kg   |             |
| 106-97-8   | 203-448-7 | butane  | 1 - < 3 %   |
|            |           | inhalation: LC50 = 658 ppm (gases)  |             |
| 67-56-1    | 200-659-6 | methanol  | 0.1 - < 1 % |
|            |           | inhalation: LC50 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 17100 mg/kg; oral: LD50 = 6000 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10 |             |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder.

#### Unsuitable extinguishing media

Full water jet

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

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

#### **5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Danger of bursting container.

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

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

##### **General advice**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear personal protection equipment.

##### **For non-emergency personnel**

First aider: Pay attention to self-protection!

##### **For emergency responders**

Fight fire with normal precautions from a reasonable distance.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

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

##### **For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers).

##### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

##### **Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

#### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

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#### Advice on general occupational hygiene

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

#### Further information on handling

Avoid contact with skin and eyes.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

##### Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

##### Further information on storage conditions

Protect from frost. Protect from direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

#### 7.3. Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

| CAS No    | Substance               | ppm  | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|-------------------------|------|-------------------|-----------|---------------|--------|
| 67-64-1   | Acetone                 | 500  | 1210              |           | TWA (8 h)     | WEL    |
|           |                         | 1500 | 3620              |           | STEL (15 min) | WEL    |
| 106-97-8  | Butane                  | 600  | 1450              |           | TWA (8 h)     | WEL    |
|           |                         | 750  | 1810              |           | STEL (15 min) | WEL    |
| 67-56-1   | Methanol                | 200  | 266               |           | TWA (8 h)     | WEL    |
|           |                         | 250  | 333               |           | STEL (15 min) | WEL    |
| 1634-04-4 | Methyl-tert-butyl ether | 50   | 183.5             |           | TWA (8 h)     | WEL    |
|           |                         | 100  | 367               |           | STEL (15 min) | WEL    |

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### DNEL/DMEL values

| CAS No                   | Substance  | Exposure route | Effect   | Value                  |
|--------------------------|--|----------------|----------|------------------------|
| DNEL type                |  |                |          |                        |
|                          | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane |                |          |                        |
| Worker DNEL, long-term   |  | inhalation     | systemic | 2035 mg/m <sup>3</sup> |
| Worker DNEL, long-term   |  | dermal         | systemic | 773 mg/kg bw/day       |
| Consumer DNEL, long-term |  | inhalation     | systemic | 608 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |  | dermal         | systemic | 699 mg/kg bw/day       |
| Consumer DNEL, long-term |  | oral           | systemic | 699 mg/kg bw/day       |
| 64742-49-0               | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics                   |                |          |                        |
| Worker DNEL, long-term   |  | inhalation     | systemic | 2085 mg/m <sup>3</sup> |
| Worker DNEL, long-term   |  | dermal         | systemic | 300 mg/kg bw/day       |
| Consumer DNEL, long-term |  | inhalation     | systemic | 447 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |  | dermal         | systemic | 149 mg/kg bw/day       |
| Consumer DNEL, long-term |  | oral           | systemic | 149 mg/kg bw/day       |
| 67-56-1                  | methanol   |                |          |                        |
| Worker DNEL, long-term   |  | inhalation     | systemic | 260 mg/m <sup>3</sup>  |
| Worker DNEL, acute       |  | inhalation     | systemic | 260 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   |  | inhalation     | local    | 260 mg/m <sup>3</sup>  |
| Worker DNEL, acute       |  | inhalation     | local    | 260 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   |  | dermal         | systemic | 40 mg/kg bw/day        |
| Worker DNEL, acute       |  | dermal         | systemic | 40 mg/kg bw/day        |
| Consumer DNEL, long-term |  | inhalation     | systemic | 50 mg/m <sup>3</sup>   |
| Consumer DNEL, acute     |  | inhalation     | systemic | 50 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term |  | inhalation     | local    | 50 mg/m <sup>3</sup>   |
| Consumer DNEL, acute     |  | inhalation     | local    | 50 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term |  | dermal         | systemic | 8 mg/kg bw/day         |
| Consumer DNEL, acute     |  | dermal         | systemic | 8 mg/kg bw/day         |
| Consumer DNEL, long-term |  | oral           | systemic | 8 mg/kg bw/day         |
| Consumer DNEL, acute     |  | oral           | systemic | 8 mg/kg bw/day         |

### PNEC values

| CAS No   | Substance | Value     |
|--|-----------|-----------|
| Environmental compartment                        |           |           |
| 67-56-1  | methanol  |           |
| Freshwater                                       |           | 20,8 mg/l |
| Freshwater (intermittent releases)               |           | 1540 mg/l |
| Marine water                                     |           | 2,08 mg/l |
| Freshwater sediment                              |           | 77 mg/kg  |
| Marine sediment                                  |           | 7,7 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |           | 100 mg/l  |
| Soil   |           | 100 mg/kg |

### Additional advice on limit values

a no restriction

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- b End of exposure or end of shift
- c at long-term exposure:
- d before next shift

blood (B)  
Urine (U)

#### 8.2. Exposure controls

##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

##### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.  
EN 166

##### Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  
Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min  
Thickness of the glove material 0,45 mm  
EN ISO 374

##### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

##### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
When exceeding the relevant workplace exposure limits, note the following:  
Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..  
Filtering device with filter or ventilator filtering device of type: AX  
Observe the wear time limits as specified by the manufacturer.  
Observe legal regulations and provisions.

##### Environmental exposure controls

Observe legal regulations and provisions.

## SECTION 9: Physical and chemical properties

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

|                 |              |
|-----------------|--------------|
| Physical state: | Aerosol      |
| Colour:         | colourless   |
| Odour:          | solvent like |

#### Test method

|   |                          |
|---|--------------------------|
| Melting point/freezing point:                             | not determined           |
| Boiling point or initial boiling point and boiling range: | -40 °C                   |
| Flammability  |                          |
| Solid/liquid:   | not applicable           |
| Gas:  | not applicable           |
| Lower explosion limits:                                   | 0,6 vol. %               |
| Upper explosion limits:                                   | 14,3 vol. %              |
| Flash point:  | -80 °C                   |
| Decomposition temperature:                                | not determined           |
| pH-Value (at 20 °C):                                      | not determined DIN 19268 |



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| Water solubility:                      | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Solubility in other solvents           |  |
| not determined                         |  |
| Partition coefficient n-octanol/water: | not determined   |
| Vapour pressure:                       | not determined   |
| Density (at 20 °C):                    | 0,7429 g/cm <sup>3</sup> DIN 51757   |
| Relative vapour density:               | not determined   |

**9.2. Other information****Information with regard to physical hazard classes**

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

Not oxidising.

**Other safety characteristics**

Evaporation rate:

not determined

Solid content:

not determined

**Further Information**

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Extremely flammable aerosol.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

**10.5. Incompatible materials**

Oxidizing agents. Pyrophoric or self-heating substances.

**10.6. Hazardous decomposition products**Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.**Further information**

Do not mix with other chemicals.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

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| CAS No     | Chemical name  |                          |           |  |  |
|------------|--|--------------------------|-----------|--|--|
|            | Exposure route   | Dose                     | Species   | Source                                   | Method                                   |
| 1634-04-4  | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane           |                          |           |  |  |
|            | oral   | LD50 3866 mg/kg          | Rat       |  |  |
|            | dermal   | LD50 > 2000 mg/kg        | Rat       |  |  |
|            | inhalation (4 h) vapour  | LC50 85 mg/l             | Rat       |  |  |
| 67-64-1    | Acetone  |                          |           |  |  |
|            | oral   | LD50 5800 mg/kg          | Rat       |  |  |
|            | dermal   | LD50 20000 mg/kg         | Rabbit    |  |  |
|            | inhalation (4 h) vapour  | LC50 76 mg/l             | Rat       |  |  |
|            | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane |                          |           |  |  |
|            | oral   | LD50 > 5000 mg/kg        | Rat       |  |  |
|            | dermal   | LD50 > 2800 - 3100 mg/kg | Rat       | Study report (1977)                      | The acute toxicity of SBP 100/140 was de |
|            | inhalation (4 h) vapour  | LC50 > 25,2 mg/l         | Rat       | Study report (1988)                      | Group of rats were exposed to test subst |
| 64742-49-0 | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics                   |                          |           |  |  |
|            | oral   | LD50 5500 mg/kg          | Rat       |  |  |
|            | dermal   | LD50 > 2800 - 3100 mg/kg | Rat       | Study report (1977)                      | The acute toxicity of SBP 100/140 was de |
|            | inhalation (4 h) vapour  | LC50 > 23,3 mg/l         | Rat       | Study report (1988)                      | OECD Guideline 403                       |
| 106-97-8   | butane   |                          |           |  |  |
|            | inhalation (4 h) gas   | LC50 658 ppm             | Rat       | GESTIS                                   |  |
| 67-56-1    | methanol   |                          |           |  |  |
|            | oral   | LD50 6000 mg/kg          | Monkey    | Amer J Ophthalmol 40: 76-83 (cited in DG | Determination of the acute toxicity of t |
|            | dermal   | LD50 17100 mg/kg         | Kaninchen |  |  |
|            | inhalation (4 h) vapour  | LC50 128,2 mg/l          | Rat       | Study report (1980)                      | Study performed according to internal co |
|            | inhalation dust/mist   | ATE 0,5 mg/l             |           |  |  |

### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

#### **STOT-single exposure**

May cause drowsiness or dizziness.

#### **STOT-repeated exposure**

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

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

#### **Specific effects in experiment on an animal**

No information available.

#### **Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### SECTION 12: Ecological information

#### **12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

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| CAS No     | Chemical name  |                    |           |                                     |  |  |
|------------|--|--------------------|-----------|-------------------------------------|--|--|
|            | Aquatic toxicity   | Dose               | [h]   [d] | Species                             | Source                                   | Method                                   |
| 75-28-5    | isobutane  |                    |           |                                     |  |  |
|            | Acute fish toxicity  | LC50 91,42 mg/l    | 96 h      | Fish, no other information          | United States Environmental Protection A | The Ecosar class program has been develo |
|            | Acute algae toxicity   | ErC50 19,37 mg/l   | 96 h      | Algae                               | USEPA OPPT Risk Assessment Division (200 | Calculation using ECOSAR Program v1.00.  |
|            | Acute crustacea toxicity   | EC50 69,43 mg/l    | 48 h      | Daphnia sp.                         | USEPA OPPT Risk Assessment Division (200 | Calculation using ECOSAR Program v1.00.  |
| 1634-04-4  | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane           |                    |           |                                     |  |  |
|            | Acute fish toxicity  | LC50 672 mg/l      | 96 h      | Oncorhynchus mykiss (Rainbow trout) |  |  |
|            | Acute algae toxicity   | ErC50 > 800 mg/l   | 72 h      | Desmodesmus subspicatus             |  |  |
|            | Acute crustacea toxicity   | EC50 651 mg/l      | 48 h      | Daphnia magna                       |  |  |
| 67-64-1    | Acetone  |                    |           |                                     |  |  |
|            | Acute fish toxicity  | LC50 5540 mg/l     | 96 h      | Onchorhynchus mykiss                |  |  |
|            | Acute algae toxicity   | ErC50 5000 mg/l    | 96 h      | Desmodesmus subspicatus             |  |  |
|            | Acute crustacea toxicity   | EC50 6100 mg/l     | 48 h      | Daphnia magna                       |  |  |
|            | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane |                    |           |                                     |  |  |
|            | Acute fish toxicity  | LC50 > 1-10 mg/l   | 96 h      | Pimephales promelas                 |  |  |
|            | Acute algae toxicity   | ErC50 10 - 30 mg/l | 72 h      | Pseudokirchneriella subcapitata     | Study report (1995)                      | OECD Guideline 201                       |
|            | Acute crustacea toxicity   | EC50 > 1-10 mg/l   | 48 h      | Daphnia magna                       |  |  |
|            | Fish toxicity  | NOEC 2,045 mg/l    | 28 d      | Oncorhynchus mykiss                 | CONCAWE, Brussels, Belgium (2010)        | The aquatic toxicity was estimated by a  |
|            | Crustacea toxicity   | NOEC 1 mg/l        | 21 d      | Daphnia magna                       | SIDS Initial Assessment Report For SIAM  | OECD Guideline 211                       |
| 64742-49-0 | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics                   |                    |           |                                     |  |  |
|            | Acute fish toxicity  | LL50 > 13,4 mg/l   | 96 h      | Oncorhynchus mykiss                 | Study report (2004)                      | OECD Guideline 203                       |
|            | Acute algae toxicity   | ErC50 12 mg/l      | 72 h      | Pseudokirchneriella subcapitata     | SIDS Initial Assessment Report For SIAM  | OECD Guideline 201                       |
|            | Acute crustacea toxicity   | EC50 >1 - 10 mg/l  | 48 h      | Daphnia magna                       |  |  |
|            | Fish toxicity  | NOEC 1,534 mg/l    | 28 d      | Oncorhynchus mykiss                 | CONCAWE, Brussels, Belgium (2010)        | The aquatic toxicity was estimated by a  |

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|          |                          |            |           |      |                                 |  |  |
|----------|--------------------------|------------|-----------|------|---------------------------------|--|--|
|          | Crustacea toxicity       | NOEC       | 1 mg/l    | 21 d | Daphnia magna                   | SIDS Initial Assessment Report For SIAM  | OECD Guideline 211                       |
| 74-98-6  | propane                  |            |           |      |                                 |  |  |
|          | Acute fish toxicity      | LC50 mg/l  | 49,9      | 96 h | Fish, no other information      | United States Environmental Protection A | The Ecosar class program has been develo |
|          | Acute algae toxicity     | ErC50 mg/l | 19,37     | 96 h | Algae                           | USEPA OPPT Risk Assessment Division (200 | Calculation using ECOSAR Program v1.00.  |
|          | Acute crustacea toxicity | EC50 mg/l  | 69,43     | 48 h | Daphnia sp.                     | USEPA OPPT Risk Assessment Division (200 | Calculation using ECOSAR Program v1.00.  |
| 106-97-8 | butane                   |            |           |      |                                 |  |  |
|          | Acute fish toxicity      | LC50 mg/l  | 49,9      | 96 h | Fish, no other information      | United States Environmental Protection A | The Ecosar class program has been develo |
|          | Acute algae toxicity     | ErC50 mg/l | 19,37     | 96 h | Algae                           | USEPA OPPT Risk Assessment Division (200 | Calculation using ECOSAR Program v1.00.  |
|          | Acute crustacea toxicity | EC50 mg/l  | 69,43     | 48 h | Daphnia sp.                     | USEPA OPPT Risk Assessment Division (200 | Calculation using ECOSAR Program v1.00.  |
| 67-56-1  | methanol                 |            |           |      |                                 |  |  |
|          | Acute fish toxicity      | LC50 mg/l  | 15400     | 96 h | Lepomis macrochirus             | Bulletin of Environmental Contamination  | other: EPA-660/3-75-00 9, 1975           |
|          | Acute algae toxicity     | ErC50 mg/l | ca. 22000 | 96 h | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety 7 | OECD Guideline 201                       |
|          | Acute crustacea toxicity | EC50 mg/l  | > 10000   | 48 h | Daphnia magna                   | Water Research 23(4): 495-499 (1989)     | other: DIN 38412 Teil 11                 |
|          | Fish toxicity            | NOEC mg/l  | 446,7     | 28 d | Pimephales promelas             | SAR and QSAR in Environmental Research,  | Calculation performed with ECOSAR        |
|          | Crustacea toxicity       | NOEC       | 208 mg/l  | 21 d | Daphnia magna                   | OECD QSAR Toolbox Report (2013)          | Toxicity of the target chemical is predi |

### 12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

| CAS No | Chemical name  |       |    |        |
|--------|--|-------|----|--------|
|        | Method   | Value | d  | Source |
|        | Evaluation   |       |    |        |
|        | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane |       |    |        |
|        | OECD Guideline 301 F   | 98%   | 28 |        |
|        | Easily biodegradable (concerning to the criteria of the OECD)      |       |    |        |

### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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#### Partition coefficient n-octanol/water

| CAS No    | Chemical name  | Log Pow   |
|-----------|--|-----------|
| 75-28-5   | isobutane  | 1,09      |
| 1634-04-4 | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane           | 0,94      |
| 67-64-1   | Acetone  | -0,24     |
|           | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | 3,4 - 5,2 |
| 74-98-6   | propane  | 1,09      |
| 106-97-8  | butane   | 1,09      |
| 67-56-1   | methanol   | -0,77     |

#### BCF

| CAS No  | Chemical name | BCF | Species         | Source               |
|---------|---------------|-----|-----------------|----------------------|
| 67-56-1 | methanol      | 1   | Cyprinus carpio | Comparative Biochemi |

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

##### List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

##### List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

### SECTION 14: Transport information

#### Land transport (ADR/RID)

|  |          |
|--|----------|
| <b>14.1. UN number or ID number:</b>     | UN 1950  |
| <b>14.2. UN proper shipping name:</b>    | AEROSOLS |
| <b>14.3. Transport hazard class(es):</b> | 2        |
| <b>14.4. Packing group:</b>              | -        |
| Hazard label:                            | 2.1      |

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Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Excepted quantity: E0  
 Transport category: 2  
 Tunnel restriction code: D

#### Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950  
14.2. UN proper shipping name: AEROSOLS  
14.3. Transport hazard class(es): 2  
14.4. Packing group: -  
 Hazard label: 2.1  
 Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Excepted quantity: E0

#### Marine transport (IMDG)

14.1. UN number or ID number: UN 1950  
14.2. UN proper shipping name: AEROSOLS  
14.3. Transport hazard class(es): 2.1  
14.4. Packing group: -  
 Hazard label: 2.1  
 Marine pollutant: no  
 Special Provisions: 63, 190, 277, 327, 344, 381, 959  
 Limited quantity: 1000 mL  
 Excepted quantity: E0  
 EmS: F-D, S-U

#### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950  
14.2. UN proper shipping name: AEROSOLS, flammable  
14.3. Transport hazard class(es): 2.1  
14.4. Packing group: -  
 Hazard label: 2.1  
 Special Provisions: A145 A167 A802  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y203  
 Excepted quantity: E0  
 IATA-packing instructions - Passenger: 203  
 IATA-max. quantity - Passenger: 75 kg  
 IATA-packing instructions - Cargo: 203  
 IATA-max. quantity - Cargo: 150 kg

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Warning: Flammable gases.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

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

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**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40, Entry 69, Entry 75

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

**Additional information**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)  
Aerosol Directive (75/324/)**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 9.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL (UK): Workplace Exposure Limits

TWA (EC): Time-Weighted Average

ATE: Acute Toxicity Estimate

STEL (EC) Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

**Relevant H and EUH statements (number and full text)**

|      |   |
|------|---|
| H220 | Extremely flammable gas.                            |
| H222 | Extremely flammable aerosol.                        |
| H225 | Highly flammable liquid and vapour.                 |
| H229 | Pressurised container: May burst if heated.         |
| H280 | Contains gas under pressure; may explode if heated. |
| H301 | Toxic if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.       |
| H311 | Toxic in contact with skin.                         |
| H315 | Causes skin irritation.                             |
| H319 | Causes serious eye irritation.                      |
| H331 | Toxic if inhaled.                                   |
| H336 | May cause drowsiness or dizziness.                  |
| H370 | Causes damage to organs.                            |
| H411 | Toxic to aquatic life with long lasting effects.    |



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|        |   |
|--------|---|
| H412   | Harmful to aquatic life with long lasting effects.    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*