

# Safety Data Sheet

## BRAKE CLEANER

Safety Data Sheet dated 18/4/2024, version 3

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

#### 1.1. Product identifier

Mixture identification:

Trade name: BRAKE CLEANER

Trade code: 155

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

Recommended use:

Spray brake cleaner.

CONSUMER USE.

Uses advised against:

Do not use for purposes other than those listed.

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

Company: STREETBUZZ DISTRIBUTION GMBH Brachalmeth 4

66271 Kleinblittersdorf - Deutschland

+49(0)6805 2063388

info@streetbuzz.com

#### 1.4. Emergency telephone number

Streetbuzz Distribution GMBH, Brachalmeth 4, 66271 Kleinblittersdorf - Deutschland - +49(0)6805 2063388 info@streetbuzz.com (Mon-Fri 10-12 / 14-16)

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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Aerosols 1, H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

Skin Irrit. 2, H315 Causes skin irritation.

STOT SE 3, H336 May cause drowsiness or dizziness.

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

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Hazard pictograms:



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Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

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.

Special Provisions:

None

Contains

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

propan-2-ol

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Ingredients (Reg. EC n. 648/2004):

>30% aliphatic hydrocarbons.

<5% non-ionic surfactants.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq$  0.1%

Other Hazards:

No other hazards








### SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable









3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty         | Name   | Ident. Number   | Classification   |
|-------------|--|---|--|
| 70 - 80 %   | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | CAS: 64742-49-0<br>EC: 927-510-4<br>REACH No.: 01-2119475515-33 |  2.6/2 Flam. Liq. 2 H225<br> 3.10/1 Asp. Tox. 1 H304<br> 3.2/2 Skin Irrit. 2 H315<br> 3.8/3 STOT SE 3 H336<br> 4.1/C2 Aquatic Chronic 2 H411 |
| 6.5 - 7.5 % | ethanol; ethyl alcohol                           | Index number: 603-002-00-5<br>CAS: 64-17-5<br>EC: 200-578-6     |  2.6/2 Flam. Liq. 2 H225<br> 3.3/2 Eye Irrit. 2 H319<br>Specific Concentration Limits:<br>C $\geq$ 50%: Eye Irrit. 2 H319  |

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|         |   |   |   |
|---------|---|---|---|
|         |   | REACH No.: 01-2119457610-43   |   |
| 2 - 7 % | butane                                      | Index number: 601-004-00-0<br>CAS: 106-97-8<br>EC: 203-448-7<br>REACH No.: 01-2119474691-32 |  2.2/1A Flam. Gas 1A H220<br> 2.5 Press. Gas H280   |
| 1 - 3 % | carbon dioxide                              | CAS: 124-38-9<br>EC: 204-696-9  |  2.5/L Press Gas (Liq.) H280  |
| 1 - 3 % | propane                                     | Index number: 601-003-00-5<br>CAS: 74-98-6<br>EC: 200-827-9<br>REACH No.: 01-2119486944-21  |  2.2/1A Flam. Gas 1A H220<br> 2.5 Press. Gas H280   |
| 1 - 3 % | propan-2-ol; isopropyl alcohol; isopropanol | Index number: 603-117-00-0<br>CAS: 67-63-0<br>EC: 200-661-7<br>REACH No.: 01-2119457558-25  |  2.6/2 Flam. Liq. 2 H225<br> 3.3/2 Eye Irrit. 2 H319<br> 3.8/3 STOT SE 3 H336 |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

No data available for the mixture. See section 11 for symptoms and effects of the substances.

HYDROCARBONS C7, n-alkanes, iso-alkanes, cyclics

Acute effects: headache, lightheadedness, dizziness, skin irritation.

It can be fatal if swallowed and enters the respiratory tract.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

HYDROCARBONS C7, N-ALCANS, ISO-ALCANS, CYCLIC: Keep under observation after exposure to the substance to check for pneumonia or pulmonary edema. Do not administer drugs from the adrenaline-ephedrine group.

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### SECTION 5: Firefighting measures

- 5.1. Extinguishing media
    - Suitable extinguishing media:  
Water spray (fog), dry chemical product, carbon dioxide (CO<sub>2</sub>), alcohol resistant foam.
    - Extinguishing media which must not be used for safety reasons:  
Water jets.
  - 5.2. Special hazards arising from the substance or mixture
    - Do not inhale explosion and combustion gases.
    - Burning produces heavy smoke.
  - 5.3. Advice for firefighters
    - Use suitable breathing apparatus .
    - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
    - Move undamaged containers from immediate hazard area if it can be done safely.
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### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
    - Wear personal protection equipment.
    - Remove all sources of ignition.
    - Remove persons to safety.
    - See protective measures under point 7 and 8.
  - 6.2. Environmental precautions
    - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
    - Retain contaminated washing water and dispose it.
    - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
    - Suitable material for taking up: absorbing material, organic, sand
  - 6.3. Methods and material for containment and cleaning up
    - Wash with plenty of water.
  - 6.4. Reference to other sections
    - See also section 8 and 13
- 

### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
    - Avoid contact with skin and eyes, inhalation of vapours and mists.
    - Don't use empty container before they have been cleaned.
    - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
    - See also section 8 for recommended protective equipment.
    - Advice on general occupational hygiene:  
Contaminated clothing should be changed before entering eating areas.
    - Do not eat or drink while working.
  - 7.2. Conditions for safe storage, including any incompatibilities
    - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
    - Keep away from food, drink and feed.
    - Incompatible materials:  
See subsection 10.5
    - Instructions as regards storage premises:  
Cool and adequately ventilated.
  - 7.3. Specific end use(s)
    - See section 1.2.
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### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters

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Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

- OEL Type: VLEP - TWA(8h): 2085 mg/m<sup>3</sup>, 500 ppm - Notes: FRANCE
- OEL Type: WEL - TWA(8h): 500 ppm - Notes: UNITED KINGDOM\_EH40/2005 Workplace exposure limits (Third edition,published 2018)
- OEL Type: OEL - TWA(8h): 2085 mg/m<sup>3</sup>, 500 ppm - Notes: EUROPE
- OEL Type: TLV-ACGIH - TWA: 400 ppm - STEL(15 min): 500 ppm - Notes: ACGIH 2019

ethanol; ethyl alcohol - CAS: 64-17-5

- OEL Type: VLEP - STEL: 1000 ppm - Notes: Italy
- OEL Type: VLEP - TWA: 1900 mg/m<sup>3</sup>, 1000 ppm - STEL: 9500 mg/m<sup>3</sup>, 5000 ppm - Notes: France
- OEL Type: WEL - TWA: 1000 ppm - Notes: United Kingdom
- OEL Type: TLV-ACGIH - TWA: 1880 mg/m<sup>3</sup>, 1000 ppm - STEL: 1884 mg/m<sup>3</sup>
- OEL Type: ACGIH - STEL: 1000 ppm

butane - CAS: 106-97-8

- OEL Type: NIOSH REL - TWA(10h): 1900 mg/m<sup>3</sup>, 800 ppm - Notes: United States, 10/2016
- OEL Type: OSHA PEL - TWA(8h): 1900 mg/m<sup>3</sup>, 800 ppm - Notes: United States, 3/1989
- OEL Type: MAK - TWA: 1600 mg/m<sup>3</sup>, 800 ppm - STEL: 3800 mg/m<sup>3</sup>, 1600 ppm - Notes: Austria
- OEL Type: VLEP - STEL(15 min): 2370 mg/m<sup>3</sup>, 980 ppm - Notes: Belgium
- OEL Type: TLV - TWA: 1200 mg/m<sup>3</sup>, 500 ppm - STEL: 2400 mg/m<sup>3</sup>, 1000 ppm - Notes: Denmark
- OEL Type: HTP - TWA: 1900 mg/m<sup>3</sup>, 800 ppm - STEL(15 min): 2400 mg/m<sup>3</sup>, 100 ppm - Notes: Finland
- OEL Type: VLE - TWA: 1900 mg/m<sup>3</sup>, 800 ppm - Notes: France
- OEL Type: MAK - TWA: 2400 mg/m<sup>3</sup>, 1000 ppm - STEL: 9600 mg/m<sup>3</sup>, 4000 ppm - Notes: Germany
- OEL Type: VLA - TWA: 1935 mg/m<sup>3</sup>, 800 ppm - Notes: Spain
- OEL Type: WEL - TWA: 1450 mg/m<sup>3</sup>, 600 ppm - STEL: 1810 mg/m<sup>3</sup>, 750 ppm - Notes: United Kingdom
- OEL Type: ACGIH - STEL: 1000 ppm - Notes: (ACGIH, 2017)

CARBON DIOXIDE - CAS: 124-38-9

- OEL Type: MAK - TWA: 9000 mg/m<sup>3</sup> - STEL: 18000 mg/m<sup>3</sup> - Notes: Austria
- OEL Type: TWA - TWA(8h): 5000 ppm - STEL(15 min): 10000 ppm - Notes: Austria
- OEL Type: TWA - TWA(8h): 9131 mg/m<sup>3</sup>, 5000 ppm - STEL(15 min): 54784 mg/m<sup>3</sup>, 30000 ppm - Notes: Belgium
- OEL Type: VLE - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Italy
- OEL Type: VME - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: France
- OEL Type: AGW - TWA(8h): 9100 mg/m<sup>3</sup>, 5000 ppm - Notes: Germany
- OEL Type: VLA-ED - TWA(8h): 9150 mg/m<sup>3</sup>, 5000 ppm - Notes: Spain
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Denmark
- OEL Type: TWA - TWA(8h): 9150 mg/m<sup>3</sup>, 5000 ppm - STEL(15 min): 27400 mg/m<sup>3</sup>, 15000 ppm - Notes: United Kingdom
- OEL Type: MAC TWA - TWA(8h): 9000 mg/m<sup>3</sup> - Notes: Netherlands
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup> - Notes: Bulgaria
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Cyprus
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Estonia
- OEL Type: OEL - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - STEL(15 min): 54000 mg/m<sup>3</sup>, 30000 ppm - Notes: Greece
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Latvia
- OEL Type: VLE - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Switzerland
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - STEL(15 min): 45000 mg/m<sup>3</sup>, 25000 ppm - Notes: Czech Republic
- OEL Type: TWA - TWA(8h): 9100 mg/m<sup>3</sup>, 5000 ppm - Notes: Finland
- OEL Type: VLE - TWA(8h): 9000 mg/m<sup>3</sup> - Notes: Hungary
- OEL Type: OEL - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - STEL(15 min): 27000 mg/m<sup>3</sup>, 15000 ppm - Notes: Ireland
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Lithuania
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Malta

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- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - Notes: Norway
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup> - STEL(15 min): 27000 mg/m<sup>3</sup> - Notes: Poland
- OEL Type: TWA - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm - STEL(15 min): 18000 mg/m<sup>3</sup>, 30000 ppm - Notes: Portugal
- OEL Type: EU - TWA(8h): 9000 mg/m<sup>3</sup>, 5000 ppm
- OEL Type: ACGIH - TWA(8h): 5000 ppm - STEL: 30000 ppm

propane - CAS: 74-98-6

- OEL Type: MAK - TWA: 1800 mg/m<sup>3</sup>, 1000 ppm - STEL: 3600 mg/m<sup>3</sup>, 2000 ppm - Notes: Austria
- OEL Type: VLEP - TWA: 1000 ppm - Notes: BELGIUM
- OEL Type: VEA - TWA: 1800 mg/m<sup>3</sup>, 1000 ppm - Notes: CANADA
- OEL Type: TLV - TWA: 1800 mg/m<sup>3</sup>, 1000 ppm - STEL: 3600 mg/m<sup>3</sup>, 2000 ppm - Notes: Denmark
- OEL Type: AGW - TWA: 1800 mg/m<sup>3</sup>, 1000 ppm - STEL: 7200 mg/m<sup>3</sup>, 4000 ppm - Notes: Germany
- OEL Type: NDS - TWA: 1800 mg/m<sup>3</sup> - Notes: POLAND
- OEL Type: VLA - TWA: 1000 ppm - Notes: SPAIN
- OEL Type: OSHA - TWA: 1800 mg/m<sup>3</sup>, 1000 ppm
- OEL Type: HTP - TWA: 1500 mg/m<sup>3</sup>, 800 ppm - STEL: 2000 mg/m<sup>3</sup>, 1100 ppm - Notes: Finland
- OEL Type: MAK - TWA: 1800 mg/m<sup>3</sup>, 1000 ppm - STEL: 7200 mg/m<sup>3</sup>, 4000 ppm - Notes: SWITZERLAND

- OEL Type: VLEP - TWA: 1400 mg/m<sup>3</sup>, 778 ppm - STEL: 1800 mg/m<sup>3</sup>, 1000 ppm - Notes: ROMANIA

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

- OEL Type: VLEP - TWA: 500 mg/m<sup>3</sup>, 200 ppm - STEL: 1000 mg/m<sup>3</sup>, 400 ppm - Notes: Belgium
- OEL Type: TLV-ACGIH - TWA(8h): 492 mg/m<sup>3</sup>, 200 ppm - STEL: 983 mg/m<sup>3</sup>, 400 ppm
- OEL Type: VLEP - STEL: 980 mg/m<sup>3</sup>, 400 ppm - Notes: France
- OEL Type: WEL - TWA: 400 ppm - STEL: 500 ppm - Notes: United Kingdom
- OEL Type: VLEP - TWA: 200 ppm - STEL: 400 ppm - Notes: Italy
- OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm

#### DNEL Exposure Limit Values

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

Worker Industry: 300 mg/kg/day - Consumer: 149 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 2085 mg/m<sup>3</sup> - Consumer: 477 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 149 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethanol; ethyl alcohol - CAS: 64-17-5

Worker Professional: 950 mg/m<sup>3</sup> - Consumer: 114 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 1900 mg/m<sup>3</sup> - Consumer: 950 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 343 mg/kg bw/d - Consumer: 206 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 87 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Worker Professional: 500 mg/m<sup>3</sup> - Consumer: 89 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 888 mg/kg/day - Consumer: 319 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 26 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Exposure: Human Dermal - Frequency: Short Term, systemic effects

#### PNEC Exposure Limit Values

ethanol; ethyl alcohol - CAS: 64-17-5

Target: Fresh Water - Value: 0.96 mg/l

Target: Marine water - Value: 0.79 mg/l

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Target: Freshwater sediments - Value: 3.6 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 580 mg/l  
 Target: Soil (agricultural) - Value: 0.63 mg/kg  
 Target: Periodic release - Value: 2.75 mg/l  
 Target: Oral (Secondary poisoning) - Value: 0.72 mg/kg  
 propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0  
 Target: Fresh Water - Value: 140.9 mg/l  
 Target: Marine water - Value: 140.9 mg/l  
 Target: Freshwater sediments - Value: 552 mg/kg  
 Target: Marine water sediments - Value: 552 mg/kg  
 Target: Periodic release - Value: 140.9 mg/l  
 Target: Microorganisms in sewage treatments - Value: 2251 mg/l  
 Target: Oral (Secondary poisoning) - Value: 160 mg/kg  
 Target: Soil - Value: 28 mg/kg

### 8.2. Exposure controls

#### Eye protection:

Under normal conditions of use no special precautions are required.  
 In case of involuntary spread, wear safety goggles with side shields (EN 166).

#### Protection for skin:

Under normal conditions of use no special precautions are required.  
 Avoid skin contact.

#### Protection for hands:

Under normal conditions of use no special precautions are required.  
 If a prolonged contact with the product is expected, it's recommended to protect your hands with work gloves resistant to penetration (ref. Standard EN 374). Final choice of the gloves material must also evaluate the process of using the product and any other products derived from them. It also recalled that the latex gloves could cause sensitization effects.

#### Respiratory protection:

If you exceed the workplace exposure limits or cause fogging, the use of a respiratory protection device is necessary.

#### Thermal Hazards:

None

#### Environmental exposure controls:

See section 7 and 13.

#### Appropriate engineering controls:

Ensure adequate ventilation of the premises.

## SECTION 9: Physical and chemical properties

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

| Properties  | Value          | Method: | Notes  |
|---|----------------|---------|--|
| Physical state:   | Liquid         | --      | under pressure   |
| Colour:   | Colourless     | --      | --   |
| Odour:  | characteristic | --      | --   |
| Melting point/freezing point:                             | not available  | --      | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics: < -20 °C |
| Boiling point or initial boiling point and boiling range: | not available  | --      | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics: > 83 °C  |
| Flammability:   | Flammable      | --      | --   |
| Lower and upper explosion limit:                          | Not applicable | --      | --   |
| Flash point:  | <23 °C         | --      | --   |
| Auto-ignition temperature:                                | Not applicable | --      | --   |
| Decomposition temperature:                                | Not applicable | --      | --   |

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|  |                  |    |                              |
|--|------------------|----|------------------------------|
| pH:  | Not applicable   | -- | mixture non-soluble in water |
| Kinematic viscosity:                               | Not Relevant     | -- | aerosol                      |
| Solubility in water:                               | not soluble      | -- | --                           |
| Solubility in oil:                                 | soluble          | -- | --                           |
| Partition coefficient n-octanol/water (log value): | Not applicable   | -- | --                           |
| Vapour pressure:                                   | 7 bar            | -- | --                           |
| Density and/or relative density:                   | 0.63 g/ml (20°C) | -- | liquid                       |
| Relative vapour density:                           | Not applicable   | -- | --                           |
| Particle characteristics:                          |                  |    |                              |
| Particle size:                                     | Not applicable   | -- | --                           |

### 9.2. Other information

No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

In normal condition of use and storage (see section 7) dangerous reactions are not expected.

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

In normal condition of use and storage dangerous reactions are not expected . Avoid contact with incompatible substances.

HYDROCARBONS C7, N-ALCANS, ISO-ALCANS, CYCLES: they can react dangerously with oxidizing materials.

### 10.4. Conditions to avoid

Avoid overheating, electrostatic discharge and all sources of ignition.

HYDROCARBONS C7, N-ALCANS, ISO-ALCANS, CYCLES: May form an explosive mixture with air.

The heat causes pressure increase with danger of bursting and subsequent explosion.

### 10.5. Incompatible materials

Acids.

Oxidizing agents.

### 10.6. Hazardous decomposition products

In case of fire or decomposition may spread gas and vapors potentially harmful for health as CO<sub>2</sub>, carbon mono-oxide and other irritating fumes.

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## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

BRAKE CLEANER

#### a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

#### b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

#### c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

#### d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

#### e) germ cell mutagenicity



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Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

The product is classified: STOT SE 3 H336

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5840 mg/kg bw - Notes: Gastric probe

Test: LC50 - Route: Inhalation - Species: Rat > 23.3 mg/l - Duration: 4h - Source: OECD 403

Test: LD50 - Route: Skin - Species: Rat > 4 mg/kg bw - Duration: 24h

Test: Respiratory Tract Irritant Positive

b) skin corrosion/irritation:

Test: Skin Irritant Positive

d) respiratory or skin sensitisation:

Negative

e) germ cell mutagenicity:

Negative

g) reproductive toxicity:

Negative

ethanol; ethyl alcohol - CAS: 64-17-5

a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 20 mg/l - Duration: 6h - Notes: OECD 403 (literature value)

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 401 - Notes: Symptoms: Central nervous system depression, coma. (literature value)

Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Notes: OECD 404 (literature value)

c) serious eye damage/irritation:

Test: Eye Irritant - Route: Eyes - Species: Rabbit Positive - Notes: OECD 405 (literature value)

d) respiratory or skin sensitisation:

Species: Mouse Negative - Notes: OECD 429 (literature value). Mouse lymph nodes

e) germ cell mutagenicity:

Test: In vitro mutation test Negative

Test: In vivo mutation test Negative

f) carcinogenicity:

Negative

g) reproductive toxicity:

Test: NOAEL - Species: Mouse = 13.800 mg/kg bw/day - Duration: 126 days - Source: OECD 416 - Notes: Two-generation reproductive toxicity study; drinking water.

Test: TERA - Route: Oral - Species: Rat = 5200 mg/kg bw/day

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Test: TERA - Route: Inhalation - Species: Rat = 39 mg/l - Source: OECD 414

butane - CAS: 106-97-8

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 1355 mg/l - Duration: 15 minutes - Notes: High concentrations of vapors can cause: headache, nausea, dizziness.

Test: LC50 - Route: Inhalation - Species: Rat = 570000 ppm - Duration: 15 minutes

Test: LC50 - Route: Inhalation - Species: Rat = 1237 mg/l - Duration: 120 minutes

b) skin corrosion/irritation:

Based on available data, the classification criteria are not met

c) serious eye damage/irritation:

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation:

Based on available data, the classification criteria are not met

e) germ cell mutagenicity:

Based on available data, the classification criteria are not met

f) carcinogenicity:

Based on available data, the classification criteria are not met

g) reproductive toxicity:

Based on available data, the classification criteria are not met

CARBON DIOXIDE - CAS: 124-38-9

a) acute toxicity:

Test: Acute toxicity No known effect.

b) skin corrosion/irritation:

No known effect.

c) serious eye damage/irritation:

No known effect.

d) respiratory or skin sensitisation:

No known effect.

e) germ cell mutagenicity:

No known effect.

f) carcinogenicity:

No known effect.

g) reproductive toxicity:

No known effect.

h) STOT-single exposure:

No known effect.

i) STOT-repeated exposure:

No known effect.

j) aspiration hazard:

Not applicable.

propane - CAS: 74-98-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 1443 mg/l - Duration: 15 minutes - Notes: High concentrations of vapors can cause: migraine, nausea, dizziness.

b) skin corrosion/irritation:

Notes: Compressed gas causes cold burns. Repeated and prolonged contact can cause skin redness, irritation and contact dermatitis due to a degreasing effect. - Based on available data, the classification criteria are not met

c) serious eye damage/irritation:

Notes: Contact with eyes may cause temporary redness and irritation. - Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation:

Based on available data, the classification criteria are not met

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e) germ cell mutagenicity:

Based on available data, the classification criteria are not met

f) carcinogenicity:

Based on available data, the classification criteria are not met

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 10000 mg/l - Duration: 6h - Source: OECD 403

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg - Source: OECD 402

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative

c) serious eye damage/irritation:

Test: Eye Irritant - Route: Eyes - Species: Rabbit Positive - Source: OECD 405

d) respiratory or skin sensitisation:

Test: Buehler test - Species: Guinea pig Negative - Source: OECD 406

e) germ cell mutagenicity:

Test: In vitro mutation test Negative

Test: In vivo mutation test Negative

f) carcinogenicity:

Test: NOAEL - Route: Inhalation Vapour - Species: Rat = 5000 mg/m<sup>3</sup> - Duration: 2yrs - Source: OECD 451 - Notes: Showed no carcinogenic effects in animal experiments

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat Negative - Duration: 10 weeks - Source: OECD 416

Test: NOAEL - Route: Oral - Species: Rat female Negative - Source: OECD 414

h) STOT-single exposure:

Route: Inhalation - Notes: It may cause drowsiness or dizziness.

i) STOT-repeated exposure:

Test: NOEC - Route: Inhalation Vapour - Species: Rat = 5000 mg/l - Duration: 90 days - Source: OECD 413

#### 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq$  0.1%

---

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Chronic 2 - H411

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

a) Aquatic acute toxicity:

Endpoint: LL50 - Species: Fish (*Oncorhynchus mykiss*) > 13.4 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: *Daphnia magna* = 3 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: ErL50 - Species: Algae (*Pseudokirchneriella subcapitata*) > 10 mg/l - Duration h: 72 - Notes: OECD 201

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish (*Oncorhynchus mykiss*) = 1.534 mg/l - Duration h: 672 - Notes: QSAR Petrotox

ethanol; ethyl alcohol - CAS: 64-17-5

a) Aquatic acute toxicity:

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Endpoint: LC50 - Species: Fish (*Pimephales promelas*) > 100 mg/l - Duration h: 96 - Notes: US EPA E03-05

Endpoint: EC50 - Species: *Ceriodaphnia dubia* > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae (*Chlorella vulgaris*) > 100 mg/l - Duration h: 72 - Notes: OECD 201 (literature values)

#### c) Bacteria toxicity:

Species: *Pseudomonas putida* = 6500 mg/l - Duration h: 16

butane - CAS: 106-97-8

#### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 24.11 mg/l - Duration h: 96 - Notes: QSAR

Endpoint: EC50 - Species: *Daphnia* = 14.22 mg/l - Notes: QSAR

Endpoint: EC50 - Species: Algae = 7.71 mg/l - Duration h: 96 - Notes: QSAR

propane - CAS: 74-98-6

#### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 49.9 mg/l - Duration h: 96

Endpoint: EC50 - Species: *Daphnia* = 27.1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 11.9 mg/l - Duration h: 72

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

#### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish (*Pimephales promelas*) > 100 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: *Ceriodaphnia dubia* > 100 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: EC50 - Species: Algae (*Chlorella vulgaris*) > 100 mg/l - Notes: OECD 201

### 12.2. Persistence and degradability

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

Biodegradability: Persistence - Test: OECD 301F - Duration h: 28 days - %: 98

Test: OECD 301F - Duration h: 10 days - %: 83

ethanol; ethyl alcohol - CAS: 64-17-5

Biodegradability: Readily biodegradable - Test: OECD 301D - Duration h: 5d - %: 70

butane - CAS: 106-97-8

Biodegradability: Readily biodegradable. - Duration h: 3,46 days - %: 50 - Notes: QSAR

propane - CAS: 74-98-6

Biodegradability: Readily biodegradable. - Duration h: 16 days - %: 100 - Notes: QSAR

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Biodegradability: Readily biodegradable - Duration h: 5d - Notes: Aerobic, Directive 84/449/EEC (literature value).

The surfactants contained in this product meet the biodegradability criteria laid down in Regulation (EC) No. 648/2004 on detergents.

### 12.3. Bioaccumulative potential

ethanol; ethyl alcohol - CAS: 64-17-5

Not bioaccumulative - Test: Log Kow 4

butane - CAS: 106-97-8

Low bioaccumulation potential - Test: Log Pow 2.89

Test: Log Kow - Notes: <=3

propane - CAS: 74-98-6

Low bioaccumulation potential - Test: Log Kow 2.36

Low bioaccumulation potential - Test: BCF - Bioconcentration factor 1.56

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Bioconcentration is not expected - Test: Log Pow - Notes: <4

### 12.4. Mobility in soil

ethanol; ethyl alcohol - CAS: 64-17-5

The product is poorly absorbed in the soil and sediments.

butane - CAS: 106-97-8

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Notes: The product is very volatile. There is no indication of biological accumulation potential.  
propane - CAS: 74-98-6

Notes: The product is very volatile. There is no indication of biological accumulation potential.  
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Notes: Very mobile in soils. No soil adsorption is expected.

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

### 12.7. Other adverse effects

None

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information



### 14.1. UN number or ID number

|                 |      |
|-----------------|------|
| ADR-UN Number:  | 1950 |
| IATA-UN Number: | 1950 |
| IMDG-UN Number: | 1950 |

### 14.2. UN proper shipping name

|                     |                     |
|---------------------|---------------------|
| ADR-Shipping Name:  | AEROSOLS, flammable |
| IATA-Shipping Name: | AEROSOLS, flammable |
| IMDG-Shipping Name: | AEROSOLS, flammable |

### 14.3. Transport hazard class(es)

|                                     |     |
|-------------------------------------|-----|
| ADR-Class:                          | 2   |
| ADR - Hazard identification number: | -   |
| IATA-Class:                         | 2   |
| IATA-Label:                         | 2.1 |
| IMDG-Class:                         | 2   |

### 14.4. Packing group

|                     |   |
|---------------------|---|
| ADR-Packing Group:  | - |
| IATA-Packing group: | - |
| IMDG-Packing group: | - |

### 14.5. Environmental hazards

|                              |                  |
|------------------------------|------------------|
| ADR-Environmental Pollutant: | Yes              |
| IMDG-Marine pollutant:       | Marine Pollutant |
| IMDG-EmS:                    | F-D , S-U        |

### 14.6. Special precautions for user

|   |                 |
|---|-----------------|
| ADR-Subsidiary hazards:                           | See SP63        |
| ADR-S.P.:   | 190 327 344 625 |
| ADR-Transport category (Tunnel restriction code): | 2 (D)           |
| IATA-Passenger Aircraft:                          | 203             |

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|                            |                |
|----------------------------|----------------|
| IATA-Subsidiary hazards:   | See SP63       |
| IATA-Cargo Aircraft:       | 203            |
| IATA-S.P.:                 | A145 A167 A802 |
| IATA-ERG:                  | 10L            |
| IMDG-Subsidiary hazards:   | See SP63       |
| IMDG-Stowage and handling: | SW1 SW22       |
| IMDG-Segregation:          | SG69           |

- 14.7. Maritime transport in bulk according to IMO instruments  
Not applicable

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### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1  
Product belongs to category: P3a, E2

#### 15.2. Chemical safety assessment

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No Chemical Safety Assessment has been carried out for the mixture.

### SECTION 16: Other information

Full text of phrases referred to in Section 3:

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- H319 Causes serious eye irritation.
- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.

| Hazard class and hazard category | Code   | Description  |
|----------------------------------|--------|--|
| Flam. Gas 1A                     | 2.2/1A | Flammable gas, Category 1A                                   |
| Aerosols 1                       | 2.3/1  | Aerosol, Category 1  |
| Press. Gas                       | 2.5    | Gases under pressure   |
| Press Gas (Liq.)                 | 2.5/L  | Gases under pressure (Liquefied gas)                         |
| Flam. Liq. 2                     | 2.6/2  | Flammable liquid, Category 2                                 |
| Asp. Tox. 1                      | 3.10/1 | Aspiration hazard, Category 1                                |
| Skin Irrit. 2                    | 3.2/2  | Skin irritation, Category 2                                  |
| Eye Irrit. 2                     | 3.3/2  | Eye irritation, Category 2                                   |
| STOT SE 3                        | 3.8/3  | Specific target organ toxicity - single exposure, Category 3 |
| Aquatic Chronic 2                | 4.1/C2 | Chronic (long term) aquatic hazard, category 2               |

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Aerosols 1, H222, H229                                    | Calculation method       |
| Skin Irrit. 2, H315                                       | Calculation method       |
| STOT SE 3, H336   | Calculation method       |
| Aquatic Chronic 2, H411                                   | Calculation method       |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECHA website: <https://echa.europa.eu/home>

IFA GESTIS website: <https://limitvalue.ifa.dguv.de>

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

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|             |   |
|-------------|---|
| ATEmix:     | Acute toxicity Estimate (Mixtures)  |
| CAS:        | Chemical Abstracts Service (division of the American Chemical Society).             |
| CLP:        | Classification, Labeling, Packaging.  |
| DNEL:       | Derived No Effect Level.  |
| EINECS:     | European Inventory of Existing Commercial Chemical Substances.                      |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany.   |
| GHS:        | Globally Harmonized System of Classification and Labeling of Chemicals.             |
| IATA:       | International Air Transport Association.  |
| IATA-DGR:   | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO:       | International Civil Aviation Organization.  |
| ICAO-TI:    | Technical Instructions by the "International Civil Aviation Organization" (ICAO).   |
| IMDG:       | International Maritime Code for Dangerous Goods.                                    |
| INCI:       | International Nomenclature of Cosmetic Ingredients.                                 |
| KSt:        | Explosion coefficient.  |
| LC50:       | Lethal concentration, for 50 percent of test population.                            |
| LD50:       | Lethal dose, for 50 percent of test population.                                     |
| PNEC:       | Predicted No Effect Concentration.  |
| RID:        | Regulation Concerning the International Transport of Dangerous Goods by Rail.       |
| STEL:       | Short Term Exposure limit.  |
| STOT:       | Specific Target Organ Toxicity.   |
| TLV:        | Threshold Limiting Value.   |
| TWA:        | Time-weighted average   |
| WGK:        | German Water Hazard Class.  |