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

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

1.1 Product identifier

WD-40® Specialist® Multi-Purpose Cutting Oil

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

Relevant identified uses of the substance or mixture:

Cutting oil

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

WD-40 Company Limited, PO Box 440, Kiln Farm, Milton Keynes, MK11 3LF, United Kingdom

Phone: +44 (0) 1908 555400, Fax: +44 (0) 1908 266900

www.wd40.co.uk

P.R. Rielly Limited KarKraft House, Kilbarrack Industrial Estate, Kilbarrack, Dublin 5, Ireland

Phone: 01-832 0006, Fax: 01-832 0016

web@team.ie

Qualified person’s e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:
+49 (0) 700 / 24 112 112 (WDC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

<table>
<thead>
<tr>
<th>Hazard class</th>
<th>Hazard category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lact.</td>
<td>Additional category</td>
<td>H362-May cause harm to breast-fed children.</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>1</td>
<td>H400- Very toxic to aquatic life.</td>
</tr>
<tr>
<td>Aerosol</td>
<td>1</td>
<td>H222-Extremely flammable aerosol.</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>1</td>
<td>H410- Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Aerosol</td>
<td>1</td>
<td>H229-Pressurised container: May burst if heated.</td>
</tr>
</tbody>
</table>

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 07.03.2017 / 0003
Replacing version dated / version: 10.07.2015 / 0002
Valid from: 07.03.2017
PDF print date: 09.03.2017
WD-40® Specialist® Multi-Purpose Cutting Oil

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.
P201-Obtain special instructions before use. 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. P260-Do not breathe vapours or spray. P263-Avoid contact during pregnancy and while nursing. P270-Do not eat, drink or smoke when using this product. P273-Avoid release to the environment. P308+P313-IF exposed or concerned: Get medical advice / attention. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501-Dispose of contents / container safely.
EUH066-Repeated exposure may cause skin dryness or cracking.
Without adequate ventilation, formation of explosive mixtures may be possible.

2.3 Other hazards
The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

Aerosol
3.1 Substance
n.a.
3.2 Mixture
Alkanes, C14-17, chloro

<table>
<thead>
<tr>
<th>Index</th>
<th>EINECS, ELINCS, NLP</th>
<th>CAS</th>
<th>content %</th>
<th>Classification according to Regulation (EC) 1272/2008 (CLP)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>85535-85-9</td>
<td>10 - 20</td>
<td>Lact. Additional category, H362 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)</td>
</tr>
</tbody>
</table>

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
The substances named in this section are given with their actual, appropriate classification!
For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures
Inhalation
Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.
If the person is unconscious, place in a stable side position and consult a doctor.
Skin contact
Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact
Remove contact lenses.
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion
Typically no exposure pathway.
Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed
If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
The following may occur:
Irritation of the respiratory tract
Coughing
Headaches
Dizziness
Effects/damages the central nervous system
With long-term contact:
drying of the skin.
Dermatitis (skin inflammation)
Ingestion:
Nausea
Vomiting
Gastrointestinal disturbances
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
CO2
Extinction powder
Water jet spray
Alcohol resistant foam

Unsuitable extinguishing media
High volume water jet

5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
Oxides of carbon
Hydrogen chloride
Toxic gases
Danger of bursting (explosion) when heated
Explosive vapour/air mixture

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove possible causes of ignition - do not smoke.
Ensure sufficient supply of air.
Avoid contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental precautions
Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous. Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

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

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

### 6.4 Reference to other sections

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

### SECTION 7: Handling and storage

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

#### 7.1 Precautions for safe handling

**7.1.1 General recommendations**

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

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

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.
Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Observe special regulations for aerosols!
Observe special storage conditions.
Store in a well ventilated place.
Keep protected from direct sunlight and temperatures over 50°C.
Store cool.

#### 7.3 Specific end use(s)

No information available at present.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Propane</th>
<th>1000 ppm (ACGIH)</th>
<th>WEL-TWA: 1000 ppm (ACGIH)</th>
<th>WEL-STEL: ---</th>
<th>---</th>
<th>Other information: ---</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitoring procedures:</td>
<td>-</td>
<td>Compur - KITA-125 SA (549 954)</td>
<td>---</td>
<td>Other information: ---</td>
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<td></td>
</tr>
<tr>
<td>BMGV:</td>
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</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Propane</th>
<th>1000 ppm</th>
<th>OELV-8h: 1000 ppm</th>
<th>OELV-15min: ---</th>
<th>---</th>
<th>Other information: ---</th>
</tr>
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<tbody>
<tr>
<td>Monitoring procedures:</td>
<td>-</td>
<td>Compur - KITA-125 SA (549 954)</td>
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<td>Other information: ---</td>
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</tr>
<tr>
<td>BLV:</td>
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</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Butane</th>
<th>600 ppm (1450 mg/m3)</th>
<th>WEL-TWA: 600 ppm (1450 mg/m3)</th>
<th>WEL-STEL: 750 ppm (1810 mg/m3)</th>
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<th>Other information: ---</th>
</tr>
</thead>
<tbody>
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<td>Monitoring procedures:</td>
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<td>Compur - KITA-221 SA (549 459)</td>
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<td>Other information: ---</td>
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<tr>
<td>BMGV:</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Butane</th>
<th>1000 ppm</th>
<th>OELV-8h: 1000 ppm</th>
<th>OELV-15min: ---</th>
<th>---</th>
<th>Other information: ---</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitoring procedures:</td>
<td>-</td>
<td>Compur - KITA-221 SA (549 459)</td>
<td>---</td>
<td>Other information: ---</td>
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<td></td>
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<tr>
<td>BLV:</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Chemical Name | Isobutane | Content %: 
--- | --- | --- 
WEL-TWA: 1000 ppm (ACGIH) | WEL-STE: --- | --- 
Monitoring procedures: - Compur - KITA-113 SB(C) (549 368) | BMGV: --- | Other information: --- 
OELV-8h: 1000 ppm (1800 mg/m3) (LPG) | OELV-15min: 1250 ppm (2250 mg/m3) (LPG) | --- 
Monitoring procedures: - Compur - KITA-113 SB(C) (549 368) | BLV: --- | Other information: --- 
Chemical Name | Oil mist, mineral | Content %: 
--- | --- | --- 
WEL-TWA: 5 mg/m3 (ACGIH) | WEL-STE: 10 mg/m3 (ACGIH) | --- 
Monitoring procedures: - Draeger - Oil 10/a-P (67 28 371) - Draeger - Oil Mist 1/a (67 33 031) | BMGV: --- | Other information: --- 
OELV-8h: 5 mg/m3 (Mineral oil, pure, highly & severely refined (inhaled)) | OELV-15min: --- | --- 
Monitoring procedures: - Draeger - Oil 10/a-P (67 28 371) - Draeger - Oil Mist 1/a (67 33 031) | BLV: --- | Other information: --- 

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) 
EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STE = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. 
OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. | OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. | BLV = Biological limit value | Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

### 8.2 Exposure controls
#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Skin protection - Hand protection:
Chemical resistant protective gloves (EN 374).
If applicable
Protective gloves made of polyvinyl alcohol (EN 374)
Protective nitrile gloves (EN 374)
Minimum layer thickness in mm:
0,4
Permeation time (penetration time) in minutes:
> 480
The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
Protective hand cream recommended.

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

Respiratory protection:
If OES or MEL is exceeded.
Filter A2 P2 (EN 14387), code colour brown, white
At high concentrations:
Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
Not applicable

Additional information on hand protection - No tests have been performed.
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls
No information available at present.

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Not determined</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>n.a.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
### SECTION 10: Stability and reactivity

#### 10.1 Reactivity
Not to be expected

#### 10.2 Chemical stability
Stable with proper storage and handling.

#### 10.3 Possibility of hazardous reactions
No dangerous reactions are known.

#### 10.4 Conditions to avoid
See also section 7.
Heating, open flame, ignition sources
Pressure increase will result in danger of bursting.

#### 10.5 Incompatible materials
Avoid contact with strong oxidizing agents.
Avoid contact with strong alkalis.
Avoid contact with strong acids.

#### 10.6 Hazardous decomposition products
See also section 5.2
No decomposition when used as directed.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects
Possibly more information on health effects, see Section 2.1 (classification).

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>n.d.a.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td>n.d.a.</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td>n.d.a.</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td>n.d.a.</td>
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</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td>n.d.a.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td>n.d.a.</td>
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<tr>
<td>Reproductive toxicity:</td>
<td>n.d.a.</td>
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<td></td>
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<td></td>
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</tbody>
</table>
### Alkanes, C14-17, chloro

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>4000</td>
<td>mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td>NOAEL</td>
<td>500</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 414 (Prenatal Developmental Toxicity Study)</td>
<td>Positive, Analogous conclusion</td>
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<tr>
<td>Reproductive toxicity (Developmental toxicity):</td>
<td>NOAEC</td>
<td>21,641</td>
<td>mg/l</td>
<td>Rat</td>
<td>OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Toxicity Screening Test)</td>
<td></td>
</tr>
</tbody>
</table>

### Propane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>658</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>OECD 471 (Bacterial Reverse Mutation Test)</td>
<td>Negative</td>
</tr>
<tr>
<td>Reproductive toxicity (Developmental toxicity):</td>
<td>NOAEC</td>
<td>21,641</td>
<td>mg/l</td>
<td>Rat</td>
<td>OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Toxicity Screening Test)</td>
<td></td>
</tr>
</tbody>
</table>

### Butane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>658</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td>OECD 471 (Bacterial Reverse Mutation Test)</td>
<td>Negative</td>
</tr>
</tbody>
</table>
### Isobutane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>658</td>
<td>mg/l/4h</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
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<td></td>
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</tr>
<tr>
<td>Germ cell mutagenicity:</td>
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<td></td>
<td></td>
<td></td>
<td>OECD 471 (Bacterial Reverse Mutation Test)</td>
<td>Negative</td>
</tr>
<tr>
<td>Symptoms:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Symptoms:**
ataxia, breathing difficulties, drowsiness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting.

### SECTION 12: Ecological information

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

<table>
<thead>
<tr>
<th>WD-40® Specialist® Multi-Purpose Cutting Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity / effect</strong></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
</tr>
<tr>
<td>12.4. Mobility in soil:</td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
</tr>
<tr>
<td>12.6. Other adverse effects:</td>
</tr>
<tr>
<td>Other information:</td>
</tr>
</tbody>
</table>

According to the recipe, contains no AOX.

<table>
<thead>
<tr>
<th>Aikanes, C14-17, chloro</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity / effect</strong></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
</tr>
</tbody>
</table>
12.1. Toxicity to algae: EC50 96h >3.2 mg/l Selenastrum capricornutum

12.2. Persistence and degradability: Hardly biodegradable

12.4. Mobility in soil: Adsorption in ground, Sediment

Toxicity to bacteria: EC50 3h >2000 mg/l activated sludge

### Propane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td></td>
<td>2.28</td>
<td></td>
<td></td>
<td></td>
<td>A notable biological accumulation potential is not to be expected (LogPow 1-3).</td>
</tr>
</tbody>
</table>

| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance                                    |

### Butane

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>24.11</td>
<td>mg/l</td>
<td></td>
<td>QSAR</td>
<td>A notable biological accumulation potential is not to be expected (LogPow 1-3).</td>
</tr>
</tbody>
</table>

| 12.1. Toxicity to daphnia: | LC50     | 48h  | 14.22 | mg/l |          | QSAR        |                                                                     |

| 12.3. Bioaccumulative potential: | Log Pow  |      | 2.98  |      |          |             |                                                                     |

| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance                                    |

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling

15 01 04 metallic packaging

### SECTION 14: Transport information

General statements

14.1. UN number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: UN 1950 AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Classification code: 5F
LQ: 1 L
14.5. Environmental hazards: environmentally hazardous
Tunnel restriction code: D

**Transport by sea (IMDG-code)**
14.2. UN proper shipping name: AEROSOLS (CHLOROPARAFFINE)
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
EmS: F-D, S-U
Marine Pollutant: Yes
14.5. Environmental hazards: environmentally hazardous

**Transport by air (IATA)**
14.2. UN proper shipping name: Aerosols, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
14.5. Environmental hazards: Not applicable

**14.6. Special precautions for user**
Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.
Precautions must be taken to prevent damage.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**
Freighted as packaged goods rather than in bulk, therefore not applicable.
Minimum amount regulations have not been taken into account.
Danger code and packing code on request.
Comply with special provisions.

---

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Observe restrictions:
Comply with trade association/occupational health regulations.

- Directive 2010/75/EU (VOC): 15 %
- Observe youth employment law (German regulation).

**15.2 Chemical safety assessment**
A chemical safety assessment is not provided for mixtures.

---

**SECTION 16: Other information**

F00196
Revised sections: 2,16
These details refer to the product as it is delivered.
Employee instruction/training in handling hazardous materials is required.
Employee training in handling dangerous goods is required.

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

<table>
<thead>
<tr>
<th>Classification in accordance with regulation (EC) No. 1272/2008 (CLP)</th>
<th>Evaluation method used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lact. Additional category, H362</td>
<td>Classification according to calculation procedure.</td>
</tr>
<tr>
<td>Aquatic Acute 1, H400</td>
<td>Classification according to calculation procedure.</td>
</tr>
<tr>
<td>Aerosol 1, H222</td>
<td>Classification based on test data.</td>
</tr>
<tr>
<td>Aquatic Chronic 1, H410</td>
<td>Classification according to calculation procedure.</td>
</tr>
</tbody>
</table>
The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- H362 May cause harm to breast-fed children.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Lact. — Reproductive toxicity - effects on or via lactation
Aquatic Acute — Hazardous to the aquatic environment - acute
Aerosol — Aerosols
Aquatic Chronic — Hazardous to the aquatic environment - chronic

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>Article Categories</td>
</tr>
<tr>
<td>acc., acc. to</td>
<td>according, according to</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>AOEL</td>
<td>Acceptable Operator Exposure Level</td>
</tr>
<tr>
<td>AOX</td>
<td>Adsorbable organic halogen compounds</td>
</tr>
<tr>
<td>approx.</td>
<td>approximately</td>
</tr>
<tr>
<td>Art., Art. no.</td>
<td>Article number</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)</td>
</tr>
<tr>
<td>BAM</td>
<td>Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)</td>
</tr>
<tr>
<td>BauA</td>
<td>Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
</tr>
<tr>
<td>BGV</td>
<td>Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)</td>
</tr>
<tr>
<td>BHT</td>
<td>Butyldihydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)</td>
</tr>
<tr>
<td>BMGV</td>
<td>Biological monitoring guidance value (EH40, UK)</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical oxygen demand</td>
</tr>
<tr>
<td>BSEF</td>
<td>Bromine Science and Environmental Forum</td>
</tr>
<tr>
<td>bw</td>
<td>body weight</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CEC</td>
<td>Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids</td>
</tr>
<tr>
<td>CESIO</td>
<td>Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques</td>
</tr>
<tr>
<td>CIPAC</td>
<td>Collaborative International Pesticides Analytical Council</td>
</tr>
<tr>
<td>CLP</td>
<td>Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)</td>
</tr>
<tr>
<td>CMR</td>
<td>carcinogenic, mutagenic, reproductive toxic</td>
</tr>
<tr>
<td>COD</td>
<td>Chemical oxygen demand</td>
</tr>
<tr>
<td>CTOFA</td>
<td>Cosmetic, Toiletry, and Fragrance Association</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimum Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No Effect Level</td>
</tr>
<tr>
<td>DOC</td>
<td>Dissolved organic carbon</td>
</tr>
<tr>
<td>DT50</td>
<td>Dwell Time - 50% reduction of start concentration</td>
</tr>
<tr>
<td>DVS</td>
<td>Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)</td>
</tr>
<tr>
<td>dw</td>
<td>dry weight</td>
</tr>
<tr>
<td>e.g.</td>
<td>for example (abbreviation of Latin 'exempli gratia'), for instance</td>
</tr>
<tr>
<td>EC</td>
<td>European Community</td>
</tr>
<tr>
<td>ECHA</td>
<td>European Chemicals Agency</td>
</tr>
<tr>
<td>EEA</td>
<td>European Economic Area</td>
</tr>
<tr>
<td>EEC</td>
<td>European Economic Community</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>EN</td>
<td>European Norms</td>
</tr>
<tr>
<td>EPA</td>
<td>United States Environmental Protection Agency (United States of America)</td>
</tr>
<tr>
<td>ERC</td>
<td>Environmental Release Categories</td>
</tr>
<tr>
<td>ES</td>
<td>Exposure scenario</td>
</tr>
<tr>
<td>etc.</td>
<td>et cetera</td>
</tr>
<tr>
<td>EU</td>
<td>European Union</td>
</tr>
<tr>
<td>EWC</td>
<td>European Waste Catalogue</td>
</tr>
<tr>
<td>Fax</td>
<td>Fax number</td>
</tr>
</tbody>
</table>
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
HET-CAM Hen's Egg Test - Chorionallantoic Membrane
HGWP Halocarbon Global Warming Potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC Intermediate Bulk Container
IBC (Code) International Bulk Chemical (Code)
IC Inhibitory concentration
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
LC lethal concentration
LC50 lethal concentration 50 percent kill
LCLo lowest published lethal concentration
LD Lethal Dose of a chemical
LD50 Lethal Dose, 50% kill
LDLo Lethal Dose Low
LOAEL Lowest Observed Adverse Effect Level
LOEC Lowest Observed Effect Concentration
LOEL Lowest Observed Effect Level
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute of Occupational Safety and Health (United States of America)
NOAEC No Observed Adverse Effective Concentration
NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
NOEL No Observed Effect Level
ODP Ozone Depletion Potential
OECD Organisation for Economic Co-operation and Development
org. organic
PAH polycyclic aromatic hydrocarbon
PC Chemical product category
PE Polyethylene
PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential
ppm parts per million
PROC Process category
PTFE Polytetrafluoroethylene
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 8xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel. Telephone
ThOD Theoretical oxygen demand
TOC Total organic carbon
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
WHO World Health Organization
wwt wet weight

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

No responsibility.

These statements were made by:
Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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