# 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® Fast Acting Degreaser

### 1.2 Relevant identified uses of the substance or mixture and uses advised against
**Relevant identified uses of the substance or mixture:**
Degreaser
**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, UK
Telephone: +44 (0) 1908 555400, Fax: +44 (0) 1908 266900
www.wd40.co.uk

IRL
P.R. Rielly Limited KarKraft House, Kilbarrack Industrial Estate, Kilbarrack, Dublin 5, IE
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
**Emergency information services / official advisory body:**
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**Telephone number of the company in case of emergencies:**
+49 (0) 700 / 24 112 112 (WDC)

IRL
**Emergency information services / official advisory body:**
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**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
### 2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class | Hazard category | Hazard statement |
|---|---|---|
| STOT SE | 3 | H336-May cause drowsiness or dizziness. |
| Aerosol | 1 | H222-Extremely flammable aerosol. |
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. |
| Aerosol | 1 | H229-Pressurised container: May burst if heated. |

### 2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)
F+,Extremely flammable
Xn, Harmful, R65
R66
R67
### 2.2 Label elements
### 2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Danger

**Hazard statement**

H336-May cause drowsiness or dizziness. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

**Prevention**

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing vapour or spray. P271-Use only outdoors or in a well-ventilated area.

**Response**

P312-Call a POISON CENTER/doctor if you feel unwell.

**Storage**

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

**Disposal**

P501-Dispose of contents/container in a safe way.

EUH066-Repeated exposure may cause skin dryness or cracking.

Without adequate ventilation, formation of explosive mixtures may be possible.
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

## 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.
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.
Without adequate ventilation, formation of explosive mixtures may be possible.

# REGULATION (EC) No 648/2004

30 % and more
aliphatic hydrocarbons

# SECTION 3: Composition/information on ingredients

Aerosol

## 3.1 Substance

n.a.

## 3.2 Mixture

| **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics** | |
|---|---|
| **Registration number (REACH)** | 01-2119463258-33-XXXX |
| **Index** | --- |
| **EINECS, ELINCS, NLP** | 919-857-5 (REACH-IT List-No.) |
| **CAS** | CAS --- |
| **content %** | 50-60 |
| **Classification according to Directive 67/548/EEC** | Flammable, R10<br>Harmful, Xn, R65<br>R66<br>R67 |
| **Classification according to Regulation (EC) 1272/2008 (CLP)** | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336 |

| 1-methoxy-2-propanol | Substance for which an EU exposure limit value applies. |
|---|---|
| **Registration number (REACH)** | -- |
| **Index** | 603-064-00-3 |
| **EINECS, ELINCS, NLP** | 203-539-1 |
| **CAS** | CAS 107-98-2 |
| **content %** | 15-25 |
| **Classification according to Directive 67/548/EEC** | Flammable, R10<br>R67 |
| **Classification according to Regulation (EC) 1272/2008 (CLP)** | Flam. Liq. 3, H226<br>STOT SE 3, H336 |

| 2-methoxy-1-methylethyl acetate | Substance for which an EU exposure limit value applies. |
|---|---|
| **Registration number (REACH)** | -- |
| **Index** | 607-195-00-7 |
| **EINECS, ELINCS, NLP** | 203-603-9 |
| **CAS** | CAS 108-65-6 |
| **content %** | 15-25 |
| **Classification according to Directive 67/548/EEC** | Flammable, R10 |
| **Classification according to Regulation (EC) 1272/2008 (CLP)** | Flam. Liq. 3, H226 |

| Carbon dioxide | Substance for which an EU exposure limit value applies. |
|---|---|
| **Registration number (REACH)** | -- |
| **Index** | --- |
| **EINECS, ELINCS, NLP** | 204-696-9 |
| **CAS** | CAS 124-38-9 |
| **content %** | 1-5 |
| **Classification according to Directive 67/548/EEC** | --- |
| **Classification according to Regulation (EC) 1272/2008 (CLP)** | --- |

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

## 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.
Danger of aspiration
In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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

Irritation of the eyes
Irritation of the respiratory tract
Coughing
Headaches
Dizziness
Effects/damages the central nervous system
Unconsciousness
With long-term contact:
Drying of the skin.
Dermatitis (skin inflammation)
Ingestion:

Nausea
Vomiting
Danger of aspiration
Oedema of the lungs
chemical pneumonitis (condition similar to pneumonia)
Other dangerous properties cannot be ruled out.
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Gastric lavage (stomach washing) only under endotracheal intubation.
Subsequent observation for pneumonia and pulmonary oedema.
Pulmonary oedema prophylaxis

## 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
Toxic pyrolysis products.
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 inhalation, and 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.
Active substance:
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation.
Avoid inhalation of the vapours.
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.
Do not store with flammable or self-igniting materials.
Observe special regulations for aerosols!
Store cool
Keep protected from direct sunlight and temperatures over 50°C.
Store in a well ventilated place.
Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):
800 mg/m3

| GB | **Chemical Name** | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Content %:50-60 |
|---|---|---|---|
| WEL-TWA: 800 mg/m3 | WEL-STEL: --- | --- | |
| BMGV: --- | Other information: (WEL acc. to RCP-method, EH40) | | |

| IRL | **Chemical Name** | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Content %:50-60 |
|---|---|---|---|
| OELV-8h: 100 ppm (573 mg/m3) (White Spirit ) | OELV-15min: 125 ppm (720 mg/m3) (White Spirit ) | --- | |
| BLV: --- | Other information: --- | | |

| GB | **Chemical Name** | 1-methoxy-2-propanol | Content %:15-25 |
|---|---|---|---|
| WEL-TWA: 100 ppm (375 mg/m3) (WEL, EU) | WEL-STEL: 150 ppm (560 mg/m3) (WEL), 150 ppm (568 mg/m3) (EU) | --- | |
| BMGV: --- | Other information: Sk (WEL) | | |

| IRL | **Chemical Name** | 1-methoxy-2-propanol | Content %:15-25 |
|---|---|---|---|
| OELV-8h: 100 ppm (375 mg/m3) (Propylene glycol monomethyl ether) (OELV-8h, EC) | OELV-15min: 150 ppm (568 mg/m3) (Propylene glycol monomethyl ether) (OELV-15min, EC) | --- | |
| BLV: --- | Other information: IOELV | | |

| GB | **Chemical Name** | 2-methoxy-1-methylethyl acetate | Content %:15-25 |
|---|---|---|---|
| WEL-TWA: 50 ppm (274 mg/m3) (WEL), 50 ppm (275 mg/m3) (EU) | WEL-STEL: 100 ppm (548 mg/m3) (WEL), 100 ppm (550 mg/m3) (EU) | --- | |
| BMGV: --- | Other information: Sk (WEL) | | |

| IRL | **Chemical Name** | 2-methoxy-1-methylethyl acetate | Content %:15-25 |
|---|---|---|---|
| OELV-8h: 50 ppm (275 mg/m3) (OELV-8h, EC) | OELV-15min: 100 ppm (550 mg/m3) (OELV-15min, EC) | --- | |
| BLV: --- | Other information: Sk, IOELV | | |

| GB | **Chemical Name** | Carbon dioxide | Content %:1-5 |
|---|---|---|---|

| | | |
|---|---|---|
| WEL-TWA: 5000 ppm (9150 mg/m3) (WEL), 5000 ppm (9000 mg/m3) (EU) | WEL-STEL: 15000 ppm (27400 mg/m3) (WEL) | --- |
| BMGV: --- | Other information: --- | |

| IRL | | |
|---|---|---|
| **Chemical Name** | Carbon dioxide | Content %:1-5 |
| OELV-8h: 5000 ppm (9000 mg/m3) (OELV-8h, EC) | OELV-15min: 15000ppm (27000 mg/m3) (OELV-15min) | --- |
| BLV: --- | Other information: IOELV | |

GB 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-STEL = 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.

IRL 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.

**1-methoxy-2-propanol**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---|---|---|---|---|---|---|
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 18,1 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 43,9 | mg/m3 | |
| Workers / employees | Human - oral | Long term, systemic effects | DNEL | 3,3 | mg/kg | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 553,5 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 50,6 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 369 | mg/m3 | |
| | Environment - freshwater | | PNEC | 10 | mg/l | |
| | Environment - marine | | PNEC | 1 | mg/l | |
| | Environment - periodic release | | PNEC | 100 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 41,6 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 4,17 | mg/kg dw | |
| | Environment - soil | | PNEC | 2,47 | mg/kg dw | |

**2-methoxy-1-methylethyl acetate**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---|---|---|---|---|---|---|
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 153,5 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 275 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 54,8 | mg/kg | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 1,67 | mg/kg | |
| | Environment - freshwater | | PNEC | 0,635 | mg/l | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Environment - sediment, freshwater | | PNEC | 3,29 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,329 | mg/kg | |
| | Environment - soil | | PNEC | 0,29 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 33 | mg/m3 | |
| | Environment - marine | | PNEC | 0,0635 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 6,35 | mg/l | |

| **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics** | | | | | | |
|---|---|---|---|---|---|---|
| **Area of application** | **Exposure route / Environmental compartment** | **Effect on health** | **Descriptor** | **Value** | **Unit** | **Note** |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 208 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 871 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 125 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 125 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 185 | mg/m3 | |

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
Applies only if maximum permissible exposure values are listed here.

### 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:
With danger of contact with eyes.
Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
Normally not necessary.
with long-term contact:
If applicable
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 III were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
Protective Viton® / fluoroelastomer gloves (EN 374)
Protective hand cream recommended.

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

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

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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | Aerosol, Substance: Liquid |
| Colour: | Colourless |
| Odour: | Solvent |
| Odour threshold: | Not determined |
| pH-value: | n.a. |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | n.a. |
| Flash point: | n.a. |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |
| Lower explosive limit: | 0,8 Vol-% |
| Upper explosive limit: | 9 Vol-% |
| Vapour pressure: | 6,7569 bar |
| Vapour density (air = 1): | Not determined |
| Density: | 0,843 g/ml |
| Bulk density: | Not determined |
| Solubility(ies): | Not determined |
| Water solubility: | partially |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity: | <30 cSt (25°C) |
| Explosive properties: | Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture. |
| Oxidising properties: | No |

### 9.2 Other information

| | |
|---|---|
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| Solvents content: | Not determined |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity
The product has not been tested.

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

### 10.3 Possibility of hazardous reactions
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.

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

## SECTION 11: Toxicological information

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

**WD-40® Specialist® Fast Acting Degreaser**

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|---|---|---|---|---|---|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Respiratory tract irritation: | | | | | | n.d.a. |
| Repeated dose toxicity: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |
| Other information: | | | | | | Classification according to calculation procedure. |

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|---|---|---|---|---|---|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5000 | mg/m3/8h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative, Analogous conclusion |
| Carcinogenicity: | | | | | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Negative, Analogous conclusion |
| Reproductive toxicity: | | | | | OECD 414 (Prenatal Developmental Toxicity Study) | Negative, Analogous conclusion |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | May cause drowsiness or dizziness. |

| | | | | | | |
|---|---|---|---|---|---|---|
| Aspiration hazard: | | | | | | Yes |
| Aspiration hazard: | | | | | | Yes |
| Repeated dose toxicity: | | | | | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Not to be expected |
| Symptoms: | | | | | | unconsciousness, headaches, dizziness |
| Symptoms: | | | | | | unconsciousness, headaches, dizziness, reddening of the skin |

**1-methoxy-2-propanol**

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|---|---|---|---|---|---|
| Acute toxicity, by oral route: | LD50 | 5200 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | 11000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | 6 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Slightly irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | | Not sensitizising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Symptoms: | | | | | | dizziness, unconsciousness, headaches, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

**2-methoxy-1-methylethyl acetate**

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|---|---|---|---|---|---|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rabbit | | |
| Acute toxicity, by oral route: | LD50 | 8532 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | >23,8 | mg/l/6h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Mild irritant |
| Respiratory or skin sensitisation: | | | | | | Not sensitizising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | No indications of such an effect. |
| Symptoms: | | | | | | respiratory distress, dizziness, unconsciousness, vomiting, headaches, mucous membrane irritation, dizziness, nausea |

**Carbon dioxide**

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|---|---|---|---|---|---|
| Symptoms: | | | | | | unconsciousness, blisters by skin-contact, vomiting, frostbite, annoyance, palpitations, itching, headaches, cramps, ear noises, dizziness |

## SECTION 12: Ecological information

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

| **WD-40® Specialist® Fast Acting Degreaser** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Toxicity/effect** | **Endpoint** | **Time** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| Toxicity to fish: | | | | | | | n.d.a. |
| Toxicity to daphnia: | | | | | | | n.d.a. |
| Toxicity to algae: | | | | | | | n.d.a. |
| Persistence and degradability: | | | | | | | Isolate as much as possible with an oil separator. |
| Bioaccumulative potential: | | | | | | | n.d.a. |
| Mobility in soil: | | | | | | | n.d.a. |
| Results of PBT and vPvB assessment: | | | | | | | n.d.a. |
| Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | According to the recipe, contains no AOX. |

| **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Toxicity/effect** | **Endpoint** | **Time** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| Toxicity to fish: | NOELR | 28d | 0,13 | mg/l | Oncorhynchus mykiss | QSAR | |
| Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to daphnia: | EC50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| Toxicity to daphnia: | NOELR | 21d | 0,23 | mg/l | Daphnia magna | QSAR | |
| Toxicity to algae: | NOELR | 72h | 100 | mg/l | Raphidocelis subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| Toxicity to algae: | NOELR | 72h | 3 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| Toxicity to algae: | EbC50 | 72h | >1000 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| Toxicity to algae: | NOELR | 72h | 100 | mg/l | Raphidocelis subcapitata | OECD 201 (Alga, Growth Inhibition Test) | groth rate |
| Toxicity to algae: | ErC50 | 72h | >1000 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| Persistence and degradability: | | 28d | 80 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| Results of PBT and vPvB assessment: | | | | | | | No PBT substance, No vPvB substance |

| **1-methoxy-2-propanol** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Toxicity/effect** | **Endpoint** | **Time** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| Toxicity to fish: | LC50 | 96h | >4600 | mg/l | Leuciscus idus | | |
| Toxicity to daphnia: | EC50 | 48h | >500 | mg/l | Daphnia magna | | |
| Toxicity to algae: | IC50 | 72h | >1000 | mg/l | Selenastrum capricornutum | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Persistence and degradability: | | 28d | 90 | % | | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | |
| Toxicity to bacteria: | EC50 | | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | | | | | | | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |

| **2-methoxy-1-methylethyl acetate** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Toxicity/effect** | **Endpoint** | **Time** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oryzias latipes | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to fish: | LC50 | 96h | >100-180 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to daphnia: | EC50 | 48h | >500 | mg/l | Daphnia magna | | |
| Toxicity to algae: | EC50 | 72h | >1000 | mg/l | Selenastrum capricornutum | OECD 201 (Alga, Growth Inhibition Test) | |
| Persistence and degradability: | | 10d | 83 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| Bioaccumulative potential: | Log Pow | | 0,36-0,56 | | | | Bioaccumulation is unlikely (LogPow < 1). |
| Mobility in soil: | Koc | | 1,7 | | | | |
| Results of PBT and vPvB assessment: | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC20 | 30min | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Water solubility: | | | 198 | g/l | | | 20°C |

| **Carbon dioxide** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Toxicity/effect** | **Endpoint** | **Time** | **Value** | **Unit** | **Organism** | **Test method** | **Notes** |
| Other adverse effects: | | | | | | | Greenhouse effect |

## 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. (2001/118/EC, 2001/119/EC, 2001/573/EC)
11 01 13 degreasing wastes containing dangerous substances

14 06 03 other solvents and solvent mixes
20 01 29 detergents containing dangerous substances
Recommendation:
Pay attention to local and national official regulations
E.g. suitable incineration plant.
E.g. dispose at suitable refuse site.

### 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

UN number: 1950

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

UN proper shipping name:
UN 1950 AEROSOLS
Transport hazard class(es): 2.1
Packing group: -
Classification code: 5F
LQ (ADR 2013): 1 L
LQ (ADR 2009): 2
Environmental hazards: Not applicable
Tunnel restriction code: D

### Transport by sea (IMDG-code)

UN proper shipping name:
AEROSOLS
Transport hazard class(es): 2.1
Packing group: -
EmS: F-D, S-U
Marine Pollutant: n.a
Environmental hazards: Not applicable

### Transport by air (IATA)

UN proper shipping name:
Aerosols, flammable
Transport hazard class(es): 2.1

Packing group: -
Environmental hazards: Not applicable

### 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.

### Transport in bulk according to Annex II of MARPOL 73/78 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.

## SECTION 15: Regulatory information

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

For classification and labelling see Section 2.
Observe restrictions: Yes
Comply with trade association/occupational health regulations.
Observe youth employment law (German regulation).
Regulation (EC) No 1907/2006, Annex XVII
VOC (1999/13/EC): 97% w/w

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

These details refer to the product as it is delivered.
EU F0059
Revised sections: n.a.

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

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|---|
| STOT SE 3, H336 | Classification according to calculation procedure. |
| Aerosol 1, H222 | Classification based on test data. |
| Asp. Tox. 1, H304 | Classification according to calculation procedure. |
| Aerosol 3, H229 | Classification based on test data. |

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).
10 Flammable.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.

STOT SE — Specific target organ toxicity - single exposure - narcotic effects
Aerosol — Aerosols
Asp. Tox. — Aspiration hazard
Flam. Liq. — Flammable liquid

## Any abbreviations and acronyms used in this document:

AC Article Categories
acc., acc. to according, according to
ACGIH American Conference of Governmental Industrial Hygienists
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOEL Acceptable Operator Exposure Level
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF Bioconcentration factor
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
BMGV Biological monitoring guidance value (EH40, UK)
BOD Biochemical oxygen demand
BSEF Bromine Science and Environmental Forum
bw body weight
CAS Chemical Abstracts Service
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
CIPAC Collaborative International Pesticides Analytical Council
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
COD Chemical oxygen demand
CTFA Cosmetic, Toiletry, and Fragrance Association
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon
DT50 Dwell Time - 50% reduction of start concentration
DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
ERC Environmental Release Categories
ES Exposure scenario
etc. et cetera
EU European Union
EWC European Waste Catalogue
Fax. Fax number
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
PBT persistent, bioaccumulative and toxic
PC Chemical product category
PE Polyethylene
PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential
ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene
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. 9xx-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
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).
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:
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