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Revised on / Version: 19.01.2011 / 0003  
Replaces revision of / Version: 23.09.2010 / 0002  
Valid from: 19.01.2011  
PDF print date: 21.10.2011  
WD-40 Specialist™ High Performance PTFE Lubricant

## 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™ High Performance PTFE Lubricant

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

##### Relevant identified uses of the substance or mixture:

Lubricant

##### Uses advised against:

No information available at present.

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

WD40 Company Limited UK, PO Box 440 , Kiln Farm, Milton Keynes, MK11 3LF  
Telephone 01908 555400, Fax 01908 266900  
info@wd40.co.uk

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

#### 1.4 Emergency telephone

##### Advisory office in case of poisoning:

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##### Telephone number of the company in case of emergencies:

Tel.: +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)

Not determined

##### 2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Xi, Irritant, R38

N, Dangerous for the environment, R51-53

F+, Extremely flammable

R67

#### 2.2 Label elements

##### 2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not determined

##### 2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Symbols: F+/Xi/N

Indications of danger:

Extremely flammable

Irritant

Dangerous for the environment

R-phrases:

38 Irritating to skin.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

67 Vapours may cause drowsiness and dizziness.

S-phrases:



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23 Do not breathe vapour/spray.  
 24/25 Avoid contact with skin and eyes.  
 29/35 Do not empty into drains  
 dispose of this material and its container in a safe way.  
 46 If swallowed, seek medical advice immediately and show this container or label.  
 51 Use only in well-ventilated areas.  
 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.  
 Additions:  
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.  
 Do not pierce or burn, even after use.  
 Do not spray on a naked flame or any incandescent material.  
 Keep away from sources of ignition - No smoking.  
 Keep out of the reach of children.  
 Without adequate ventilation, formation of explosive mixtures may be possible.  
 Contains  
 (R)-p-mentha-1,8-diene  
 Citronellal  
 May produce an allergic reaction.

**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.  
 May produce an allergic reaction.

**REGULATION (EC) No 648/2004**

n.a.

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

Aerosol

**3.1 Substance**

n.a.

**3.2 Mixture**

<b>Naphtha (petroleum), hydrodesulfurized light, dearomatized</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	649-383-00-1
<b>EINECS, ELINCS</b>	295-434-2
<b>CAS</b>	CAS 92045-53-9
<b>content %</b>	20-40
<b>Symbol</b>	F/Xi/Xn/N
<b>R-phrases</b>	11-38-51-53-65-67
<b>Classification categories / Indications of danger</b>	Dangerous for the environment, Harmful, Highly flammable, Irritant
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Flam. Liq./2	H225
Asp. Tox./1	H304
Skin Irrit./2	H315
STOT SE/3	H336
Aquatic Chronic/2	H411

<b>Distillates (petroleum), hydrotreated light</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	649-422-00-2
<b>EINECS, ELINCS</b>	265-149-8
<b>CAS</b>	CAS 64742-47-8
<b>content %</b>	10-30
<b>Symbol</b>	Xn

<b>R-phrases</b>	65-66
<b>Classification categories / Indications of danger</b>	Harmful
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Asp. Tox./1	H304

<b>Isoalkanes (C11 - C15)</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS</b>	292-460-6
<b>CAS</b>	CAS 90622-58-5
<b>content %</b>	1-20
<b>Symbol</b>	Xn
<b>R-phrases</b>	65-66
<b>Classification categories / Indications of danger</b>	Harmful
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Asp. Tox./1	H304

<b>Distillates (petroleum), hydrotreated light</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	649-422-00-2
<b>EINECS, ELINCS</b>	265-149-8
<b>CAS</b>	CAS 64742-47-8
<b>content %</b>	1-5
<b>Symbol</b>	Xn
<b>R-phrases</b>	65
<b>Classification categories / Indications of danger</b>	Harmful
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Asp. Tox./1	H304

<b>Alkanes, C7-10-iso-</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS</b>	292-458-5
<b>CAS</b>	CAS 90622-56-3
<b>content %</b>	1-5
<b>Symbol</b>	F/Xi/Xn/N
<b>R-phrases</b>	11-38-51-53-65-67
<b>Classification categories / Indications of danger</b>	Dangerous for the environment, Harmful, Highly flammable, Irritant
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Flam. Liq./2	H225
Asp. Tox./1	H304
Skin Irrit./2	H315
STOT SE/3	H336
Aquatic Chronic/2	H411

<b>Citronellal</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS</b>	203-376-6
<b>CAS</b>	CAS 106-23-0
<b>content %</b>	0,1-<1
<b>Symbol</b>	Xi/N
<b>R-phrases</b>	38-43-51-53
<b>Classification categories / Indications of danger</b>	Dangerous for the environment, Irritant, Sensitizing
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Skin Irrit./2	H315
Skin Sens./1	H317
Aquatic Chronic/2	H411

<b>Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates</b>	
<b>Registration number (ECHA)</b>	--

<b>Index</b>	---
<b>EINECS, ELINCS</b>	279-632-6
<b>CAS</b>	CAS 80939-62-4
<b>content %</b>	0,1-<1
<b>Symbol</b>	Xi/N
<b>R-phrases</b>	36/38-51-53
<b>Classification categories / Indications of danger</b>	Dangerous for the environment, Irritant
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Eye Irrit./2	H319
Skin Irrit./2	H315
Aquatic Chronic/2	H411

<b>(R)-p-mentha-1,8-diene</b>	
<b>Registration number (ECHA)</b>	--
<b>Index</b>	601-029-00-7
<b>EINECS, ELINCS</b>	227-813-5
<b>CAS</b>	CAS 5989-27-5
<b>content %</b>	0,1-<1
<b>Symbol</b>	Xi/N
<b>R-phrases</b>	10-38-43-50-53
<b>Classification categories / Indications of danger</b>	Dangerous for the environment, Flammable, Irritant, Sensitizing
<b>Hazard class/Hazard category</b>	<b>Hazard statement</b>
Flam. Liq./3	H226
Skin Irrit./2	H315
Skin Sens./1	H317
Aquatic Acute/1	H400
Aquatic Chronic/1	H410

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)

Sensitive individuals:

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Allergic reaction possible.  
Ingestion:  
Nausea  
Vomiting  
Danger of aspiration  
Oedema of the lungs  
chemical pneumonitis (condition similar to pneumonia)  
Other dangerous properties cannot be ruled out.

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

Indications for the physician:  
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  
Cool container at risk with water.

##### **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  
Oxides of sulphur  
Hydrofluoric acid  
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  
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**

- 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.
- 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**

Chemical Name	Naphtha (petroleum), hydrodesulfurized light, dearomatized		Content %:20-40
WEL-TWA: 1200 mg/m3 (> C7 normal and branched chain alkanes) (WEL), 1500 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		
Chemical Name	Distillates (petroleum), hydrotreated light		Content %:10-30
WEL-TWA: 1200 mg/m3 (normal and branched chain >= C7) (WEL), 600 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		
Chemical Name	Isoalkanes (C11 - C15)		Content %:1-20
WEL-TWA: 1200 mg/m3 (normal and branched chain >= C7) (WEL), 600 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		
Chemical Name	Distillates (petroleum), hydrotreated light		Content %:1-5
WEL-TWA: 1200 mg/m3 (normal and branched chain >= C7) (WEL), 600 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		
Chemical Name	Alkanes, C7-10-iso-		Content %:1-5
WEL-TWA: 1200 mg/m3 (normal and branched chain >= C7) (WEL), 600 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		
Chemical Name	Oil mist, mineral		Content %:
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)	---	
BMGV: ---	Other information: ---		
Chemical Name	Paraffin wax, fume		Content %:
WEL-TWA: 2 mg/m3	WEL-STEL: 6 mg/m3	---	

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BMGV: ---		Other information: ---	
Chemical Name		Content %:	
Petroleum gases, liquified			
WEL-TWA: 1000 ppm (1750 mg/m3) (Liquefied petroleum gas (LPG))	WEL-STEL: 1250 ppm (2180 mg/m3) (Liquefied petroleum gas (LPG))	---	
BMGV: ---		Other information: ---	

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.

## 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)  
 Protective gloves made of polyvinyl alcohol (EN 374)  
 Protective Viton 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:  
 If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

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

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No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	Light brown
Odour:	Hydrocarbons
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:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,706 g/ml
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
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

See also Subsection 10.4 to 10.6.  
 The product has not been tested.

### 10.2 Chemical stability

See also Subsection 10.4 to 10.6.  
 Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

See also Subsection 10.4 to 10.6.  
 No decomposition if used as intended.

### 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 Subsection 10.4 to 10.6.  
 No decomposition when used as directed.

## SECTION 11: Toxicological information



<b>WD-40 Specialist™ High Performance PTFE Lubricant</b>						
<b>Toxicity/effect</b>	<b>Endpoint</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
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 toxicity data:						Classification according to calculation procedure.

<b>Naphtha (petroleum), hydrodesulfurized light, dearomatized</b>						
<b>Toxicity/effect</b>	<b>Endpoint</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
Aspiration hazard:						Yes
Symptoms:						diarrhoea, headaches, dizziness, nausea and vomiting.

<b>Distillates (petroleum), hydrotreated light</b>						
<b>Toxicity/effect</b>	<b>Endpoint</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>3000	mg/kg	Rabbit		
Acute toxicity, by dermal route:		>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:		>5	mg/l/4h	Rat		
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:						Not irritant
Respiratory or skin sensitisation:						Not sensitizing
Aspiration hazard:						Yes

<b>Isoalkanes (C11 - C15)</b>						
<b>Toxicity/effect</b>	<b>Endpoint</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>3000	mg/kg	Rabbit		
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.

Aspiration hazard:						Yes
Symptoms:						headaches, dizziness

**Distillates (petroleum), hydrotreated light**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Aspiration hazard:						Yes

**Alkanes, C7-10-iso-**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>10000	mg/kg			
Acute toxicity, by dermal route:	LD50	>3000	mg/kg			
Skin corrosion/irritation:						Analogous conclusion, Irritant
Serious eye damage/irritation:						Mild irritant
Respiratory or skin sensitisation:						Not sensitising
Aspiration hazard:						Yes
Symptoms:						headaches, mucous membrane irritation, dizziness

**Citronellal**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2420	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rabbit		
Serious eye damage/irritation:				Rabbit		Not irritant
Symptoms:						respiratory distress, coughing, mucous membrane irritation

**Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		Analogous conclusion
Skin corrosion/irritation:						Irritant
Serious eye damage/irritation:						Irritant
Respiratory or skin sensitisation:						Not sensitising

**(R)-p-mentha-1,8-diene**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4400	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Symptoms:						diarrhoea, rash, itching, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting.

**Paraffin wax, fume**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms:						diarrhoea

Petroleum gases, liquified						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	>5	mg/l			
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant

**SECTION 12: Ecological information**

WD-40 Specialist™ High Performance PTFE Lubricant							
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.

Distillates (petroleum), hydrotreated light							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50		>100	mg/l			
Toxicity to algae:	IC50		>100	mg/l			
Persistence and degradability:							Readily biodegradable

Isoalkanes (C11 - C15)							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	2890	mg/l	(Pimephales promelas)	IUCLID Chem. Data Sheet (ESIS)	
Toxicity to fish:	LC50	96h	72	mg/l	(Oncorhynchus mykiss)		
Toxicity to daphnia:	EC50	48h	<100	mg/l	(Daphnia magna)	IUCLID Chem. Data Sheet (ESIS)	
Toxicity to algae:	EC50	72h	100	mg/l			

Alkanes, C7-10-iso-							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	18,4	mg/l	(Oncorhynchus mykiss)		Analogous conclusion
Persistence and degradability:							Inherent

Citronellal							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	22	mg/l	(Leuciscus idus)		
Toxicity to daphnia:	EC50	48h	8,7	mg/l	(Daphnia magna)		
Toxicity to algae:	IC50	72h	7,5	mg/l			
Other ecotoxicological data:	COD		2670	mg/kg			
Other ecotoxicological data:	BOD/COD		60	%			Not readily biodegradable
Other ecotoxicological data:	ThOD		2900	mg/kg			

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Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50		1-10	mg/l			Analogous conclusion
Toxicity to daphnia:	EC50		1-10	mg/l			Analogous conclusion

(R)-p-mentha-1,8-diene							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	0,70	mg/l	(Pimephales promelas)		
Toxicity to daphnia:	EC50	48h	0,42	mg/l	(Daphnia magna)		
Persistence and degradability:		28d	92	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	

Petroleum gases, liquified							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Bioaccumulative potential:							Not to be expected

## 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)  
 07 06 04 other organic solvents, washing liquids and mother liquors

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 2011): 1 L

LQ (ADR 2009): 2

Environmental hazards: environmentally hazardous

Tunnel restriction code: D

#### Transport by sea (IMDG-code)

UN proper shipping name:

AEROSOLS (NAPHTHA (PETROLEUM))

Transport hazard class(es): 2.1

Packing group: -



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EmS: F-D, S-U  
 Marine Pollutant: Yes  
 Environmental hazards: environmentally hazardous

**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): ~ 82% 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.

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The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).

- 11 Highly flammable.
- 38 Irritating to skin.
- 43 May cause sensitization by skin contact.
- 50 Very toxic to aquatic organisms.
- 51 Toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 10 Flammable.
- 36/38 Irritating to eyes and skin.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Flam. Liq.-Flammable liquid  
 Asp. Tox.-Aspiration hazard  
 Skin Irrit.-Skin irritation

STOT SE-Specific target organ toxicity - single exposure - narcotic effects  
 Aquatic Chronic-Hazardous to the aquatic environment - chronic  
 Skin Sens.-Skin sensitization  
 Eye Irrit.-Eye irritation  
 Aquatic Acute-Hazardous to the aquatic environment - acute

**Legend:**

- 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
- 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
- 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  
 LMBG Lebensmittel- und Bedarfsgegenständegesetz (= Foodstuffs and Commodities Law)  
 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 product category (= 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)  
 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)  
 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

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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