

Page 1 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 11.11.2013 / 0009  
Replaces revision of / Version: 05.07.2012 / 0008  
Valid from: 11.11.2013  
PDF print date: 12.11.2013  
Tar Remover 450ml Art.: 9668

## 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

**Tar Remover 450ml**  
**Art.: 9668**

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

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

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC35 - Washing and cleaning products (including solvent based products)

Process category [PROC]:

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

PROC19 - Hand-mixing with intimate contact and only PPE available

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 2 - Formulation of preparations

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 5 - Industrial use resulting in inclusion into or onto a matrix

ERC 8a - Wide dispersive indoor use of processing aids in open systems

ERC 8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC 8d - Wide dispersive outdoor use of processing aids in open systems

ERC 8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

##### Uses advised against:

No information available at present.

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

SCT Vertriebs GmbH, Feldstraße 154, 22880 Wedel, Germany

Telephone: (+49) 04103-1211-0, Fax: (+49) 04103-1211-88

Qualified person's e-mail address: info@sct-germany.de, a.till@sct-germany.de Please DO NOT use for requesting Safety Data Sheets.

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#### 1.4 Emergency telephone

##### Emergency information services / official advisory body:

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

Tel.: (+49) 04103-1211-0

### 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
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 11.11.2013 / 0009  
Replaces revision of / Version: 05.07.2012 / 0008  
Valid from: 11.11.2013  
PDF print date: 12.11.2013  
Tar Remover 450ml Art.: 9668

Aerosol	1	H222-Extremely flammable aerosol.
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  
Dangerous for the environment, R52-53  
Xn, Harmful, R65  
R66  
R67

## 2.2 Label elements

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



Danger

#### Hazard statement

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

P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. .

#### Storage

P405-Store locked up. P410+P412-Protect from sunlight. Do no expose to temperatures exceeding 50 °C.

#### Disposal

P501-Dispose of contents/container to hazardous or special waste collection point.

EUH208-Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.  
EUH066-Repeated exposure may cause skin dryness or cracking.

Without adequate ventilation, formation of explosive mixtures may be possible.  
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics  
Propan-2-ol

## 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.

## REGULATION (EC) No 648/2004

30 % and more  
aliphatic hydrocarbons  
less than 5 %

GB

Page 3 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

non-ionic surfactants

perfumes  
 LIMONENE

### SECTION 3: Composition/information on ingredients

Aerosol

#### 3.1 Substance

n.a.

#### 3.2 Mixture

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	
Registration number (REACH)	01-2119472146-39-XXXX
Index	---
EINECS, ELINCS, NLP	918-167-1 (REACH-IT List-No.)
CAS	CAS ---
content %	20-30
Classification according to Directive 67/548/EEC	Dangerous for the environment, R53 Harmful, Xn, R65 R66
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	01-2119473851-33-XXXX
Index	---
EINECS, ELINCS, NLP	920-750-0 (REACH-IT List-No.)
CAS	CAS ---
content %	20-<25
Classification according to Directive 67/548/EEC	Highly flammable, F, R11 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R66 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411

Propan-2-ol	
Registration number (REACH)	01-2119457558-25-XXXX
Index	603-117-00-0
EINECS, ELINCS, NLP	200-661-7
CAS	CAS 67-63-0
content %	5-<10
Classification according to Directive 67/548/EEC	Highly flammable, F, R11 Irritant, Xi, R36 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Distillates (petroleum), hydrotreated heavy paraffinic	
Registration number (REACH)	01-2119484627-25-XXXX
Index	649-467-00-8
EINECS, ELINCS, NLP	265-157-1
CAS	CAS 64742-54-7
content %	1-5
Classification according to Directive 67/548/EEC	---
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

GB

Page 4 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

Isopentane	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475602-38-XXXX
Index	601-006-00-1 /
EINECS, ELINCS, NLP	201-142-8
CAS	CAS 78-78-4
content %	0,01-<1
Classification according to Directive 67/548/EEC	Extremely flammable, F+, R12 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R66 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 1, H224 Aquatic Chronic 2, H411 Asp. Tox. 1, H304 STOT SE 3, H336

(R)-p-mentha-1,8-diene	
Registration number (REACH)	01-2119529223-47-XXXX
Index	601-029-00-7
EINECS, ELINCS, NLP	227-813-5
CAS	CAS 5989-27-5
content %	0,01-<1
Classification according to Directive 67/548/EEC	Flammable, R10 Irritant, Xi, R38 Sensitizing, R43 Dangerous for the environment, N, R50 Dangerous for the environment, R53
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult 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. 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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

Headaches  
 Dizziness  
 Coordination disorders  
 Mental confusion  
 Effect on the central nervous system  
 Narcotic effect.

GB

Page 5 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 11.11.2013 / 0009  
Replaces revision of / Version: 05.07.2012 / 0008  
Valid from: 11.11.2013  
PDF print date: 12.11.2013  
Tar Remover 450ml Art.: 9668

Drying of the skin.  
Dermatitis (skin inflammation)  
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**

Cool container at risk with water.  
Water jet spray/foam/CO2/dry extinguisher

##### **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 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

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.

#### **6.2 Environmental precautions**

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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.

Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Do not wash away with water or watery cleaning agents.

#### **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.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

GB

Page 6 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

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.  
 Observe special regulations for aerosols!  
 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):  
 1200 mg/m<sup>3</sup>

GB	<b>Chemical Name</b>	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Content %:20-30
	WEL-TWA: 1200 mg/m <sup>3</sup> (>=C7 normal and branched chain alkanes)	WEL-STEL: 2(II) (AGW)	---
	BMGV: ---	Other information: ---	
GB	<b>Chemical Name</b>	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Content %:20-<25
	WEL-TWA: 1200 mg/m <sup>3</sup>	WEL-STEL: ---	---
	BMGV: ---	Other information: ---	
GB	<b>Chemical Name</b>	Propan-2-ol	Content %:5-<10
	WEL-TWA: 400 ppm (999 mg/m <sup>3</sup> )	WEL-STEL: 500 ppm (1250 mg/m <sup>3</sup> )	---
	BMGV: ---	Other information: ---	
GB	<b>Chemical Name</b>	Isopentane	Content %:0,01-<1
	WEL-TWA: 600 ppm (1800 mg/m <sup>3</sup> ) (WEL), 1000 ppm (3000 mg/m <sup>3</sup> ) (EU)	WEL-STEL: ---	---
	BMGV: ---	Other information: ---	
GB	<b>Chemical Name</b>	Oil mist, mineral	Content %:
	WEL-TWA: 5 mg/m <sup>3</sup> (ACGIH)	WEL-STEL: 10 mg/m <sup>3</sup> (ACGIH)	---
	BMGV: ---	Other information: ---	
GB	<b>Chemical Name</b>	Butane	Content %:
	WEL-TWA: 600 ppm (1450 mg/m <sup>3</sup> )	WEL-STEL: 750 ppm (1810 mg/m <sup>3</sup> )	---
	BMGV: ---	Other information: ---	
GB	<b>Chemical Name</b>	Propane	Content %:
	WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL: ---	---
	BMGV: ---	Other information: ---	
GB	<b>Chemical Name</b>	Isobutane	Content %:
	WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL: ---	---
	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.

GB

Page 7 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/d	

Propan-2-ol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - dermal	Long term	DNEL	888	mg/kg	(1 d)
Workers / employees	Human - inhalation	Long term	DNEL	500	mg/m3	
Consumer	Human - dermal	Long term	DNEL	319	mg/kg	(1 d)
Consumer	Human - inhalation	Long term	DNEL	89	mg/m3	
Consumer	Human - oral	Long term	DNEL	26	mg/kg	(1 d)
	Environment - freshwater		PNEC	140,9	mg/l	
	Environment - marine		PNEC	140,9	mg/l	
	Environment - sediment, freshwater		PNEC	552	mg/kg	
	Environment - sediment, marine		PNEC	552	mg/kg	
	Environment - soil		PNEC	28	mg/kg	

Distillates (petroleum), hydrotreated heavy paraffinic						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,4	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3	
	Environment - oral (animal feed)		PNEC	9,33	mg/kg feed	

## 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:  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN 374).  
 If applicable

(GB)

Page 8 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 11.11.2013 / 0009  
Replaces revision of / Version: 05.07.2012 / 0008  
Valid from: 11.11.2013  
PDF print date: 12.11.2013  
Tar Remover 450ml Art.: 9668

Protective nitrile gloves (EN 374)  
Minimum layer thickness in mm:  
0,4  
Permeation time (penetration time) in minutes:  
> 480  
Protective gloves made of polyvinyl alcohol (EN 374)  
Protective Viton® / fluoroelastomer gloves (EN 374)  
Protective hand cream recommended.  
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.

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 A 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:	Characteristic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	n.a.
Flash point:	-60 °C
Evaporation rate:	n.a.
Flammability (solid, gas):	n.a.
Lower explosive limit:	0,6 Vol-%
Upper explosive limit:	8,5 Vol-%
Vapour pressure:	3000 hPa (20°C)
Vapour density (air = 1):	Not determined
Density:	0,66 g/ml (20°C)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	230 °C (Ignition temperature )
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Product is not explosive. When using: development of explosive vapour/air mixture possible.
Oxidising properties:	No



Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

## 9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	97,8 %

## 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

See also section 7.

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).

### Tar Remover 450ml

Art.: 9668

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	t					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, C11-C12, isoalkanes, <2% aromatics

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	

GB

Page 10 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 427 (Skin Absorption - In Vivo Method)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>5000	mg/m3	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:						Not irritant
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant (Analogous conclusion)
Respiratory or skin sensitisation:						Not sensitising (Analogous conclusion)
Respiratory or skin sensitisation:						Not sensitising
Germ cell mutagenicity:						Analogous conclusion, Negative
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Analogous conclusion, Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):						Analogous conclusion, No
Aspiration hazard:						Yes
Symptoms:						dizziness, headaches

**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics**

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	>2800	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising
Germ cell mutagenicity (in vitro):					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity (in vivo):		2000	mg/kg	Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Reproductive toxicity:	LOAEL	9000	ppm	Rat	OECD 416 (Two-generation Reproduction Toxicity Study)	Negative
Aspiration hazard:						Yes
Symptoms:						dizziness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.

GB

Page 11 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

<b>Propan-2-ol</b>						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4570	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	12800	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	30	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):						Destination organ(s): liver
Symptoms:						breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea

<b>Distillates (petroleum), hydrotreated heavy paraffinic</b>						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin sensitisation:						Not sensitising
Aspiration hazard:						Yes

<b>Isopentane</b>						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	1280	mg/l/4h	Rat		
Skin corrosion/irritation:				Human being		Not irritant, Repeated exposure may cause skin dryness or cracking.
Respiratory or skin sensitisation:				Guinea pig		Not sensitising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						Yes
Symptoms:						dizziness, unconsciousness, diarrhoea, annoyance, headaches, cramps, circulatory disorders, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.

<b>(R)-p-mentha-1,8-diene</b>						
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.

<b>Butane</b>						
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GB

Page 13 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

Persistence and degradability:							The surfactant(s) contained in this mixture complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents., Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							Product is slightly volatile.
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, C11-C12, isoalkanes, <2% aromatics**

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to fish:	NOELR	28d	0,21	mg/l	Oncorhynchus mykiss	QSAR	
Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to daphnia:	NOELR	21d	0,02	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to algae:	ErL50	72h	>1000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	EbL50	72h	>1000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	31	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
Results of PBT and vPvB assessment:							No PBT substance, No vPvB substance

**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics**

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LL50	96h	3 -10	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	

Page 14 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

Toxicity to daphnia:	NOELR	21d	1 -1,6	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to daphnia:	EL50	48h	4,6 - 10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	EbL50	72h	10-30	mg/kg	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	NOEC/NO EL	72h	10	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	98	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Completely biodegradable.
Results of PBT and vPvB assessment:							No PBT substance, No vPvB substance
Toxicity to bacteria:	EL50	48h	11,14	mg/l			calculated value
Water solubility:			2	mg/l			Insoluble

<b>Propan-2-ol</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	9640	mg/l	Pimephales promelas		
Toxicity to daphnia:	EC50	48h	13299	mg/l	Daphnia magna		References
Toxicity to algae:	EC50	72h	>1000	mg/l	Desmodesmus subspicatus		
Persistence and degradability:		21d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	
Bioaccumulative potential:	Log Pow		0,05			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	
Mobility in soil:	Koc		1,1				expert judgement
Results of PBT and vPvB assessment:							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		>1000	mg/l	activated sludge		
Toxicity to bacteria:	EC10	18h	5175	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	ThOD		2,4	g/g			
Other information:	BOD5		53	%			
Other information:	COD		96	%			References
Water solubility:							Soluble

<b>Distillates (petroleum), hydrotreated heavy paraffinic</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Persistence and degradability:							Not readily biodegradable
Water solubility:							Insoluble

<b>Isopentane</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	3,1	mg/l	Oncorhynchus mykiss		

GB

Page 15 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

Toxicity to daphnia:	EC50	48h	2,3	mg/l	Daphnia magna		
Persistence and degradability:		12d	100	%			

<b>(R)-p-mentha-1,8-diene</b>							
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)	

<b>Butane</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).
Results of PBT and vPvB assessment:							No PBT substance, No vPvB substance

<b>Propane</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Bioaccumulative potential:	Log Pow		2,28				A notable biological accumulation potential is not to be expected (LogPow 1-3).
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. (2001/118/EC, 2001/119/EC, 2001/573/EC)  
 16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

- Pay attention to local and national official regulations
- Take full aerosol cans to problem waste collection.
- Take emptied aerosol cans to valuable material collection.
- Pay attention to local and national official regulations
- 15 01 04 metallic packaging
- 15 01 10 packaging containing residues of or contaminated by dangerous substances
- Recycling
- Do not perforate, cut up or weld uncleaned container.

## 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: -



GB

Page 16 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 11.11.2013 / 0009  
 Replaces revision of / Version: 05.07.2012 / 0008  
 Valid from: 11.11.2013  
 PDF print date: 12.11.2013  
 Tar Remover 450ml Art.: 9668

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).  
 VOC 1999/13/EC 97,76% w/w  
 VOC-CH 0,257 kg (450ml)

**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.  
 Revised sections: 2, 3, 8

**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
Aerosol 1, H222	Classification based on test data.
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).



Page 17 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 11.11.2013 / 0009  
Replaces revision of / Version: 05.07.2012 / 0008  
Valid from: 11.11.2013  
PDF print date: 12.11.2013  
Tar Remover 450ml Art.: 9668

10 Flammable.  
11 Highly flammable.  
12 Extremely flammable.  
36 Irritating to eyes.  
38 Irritating to skin.  
43 May cause sensitization by skin contact.  
  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.

H224 Extremely flammable liquid and vapour.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.

Asp. Tox. — Aspiration hazard  
STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
Aquatic Chronic — Hazardous to the aquatic environment - chronic  
Aerosol — Aerosols  
Flam. Liq. — Flammable liquid  
Eye Irrit. — Eye irritation  
Skin Irrit. — Skin irritation  
Skin Sens. — Skin sensitization  
Aquatic Acute — Hazardous to the aquatic environment - acute

### 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)

Page 18 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 11.11.2013 / 0009  
Replaces revision of / Version: 05.07.2012 / 0008  
Valid from: 11.11.2013  
PDF print date: 12.11.2013  
Tar Remover 450ml Art.: 9668

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 Effect 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

Page 19 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 11.11.2013 / 0009  
Replaces revision of / Version: 05.07.2012 / 0008  
Valid from: 11.11.2013  
PDF print date: 12.11.2013  
Tar Remover 450ml Art.: 9668

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:

**SCT Vertriebs GmbH, Feldstr. 154, 22880 Wedel, Germany**

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