

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** Lithofin WAX-OFF

**Revision date :** 04.09.2014  
**Print date :** 18.12.2014

**Version :** 0.0.0  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Lithofin WAX-OFF

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

No information available.

**1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)**

**Distributor :** Casdron Enterprises Ltd.  
**Street :** Wood End, Prospect Road  
**Postal code/city :** GB- New Alresford, Hants SO 24 9QF  
**Telephone :** +44 1962 732126  
**Telefax :** +44 1962 735373  
**Contact :** Technical Department  
E-mail: sales@lithofin.co.uk

Emergency telephone number:  
0196 2732126  
(Only available during office hours)

**Supplier :** Lithofin AG  
**Street :** Heinrich-Otto-Str. 36  
**Postal code/city :** 73240 Wendlingen  
**Telephone :** +49 (0)7024 9403-0  
**Telefax :** +49 (0)7024 9403-40  
**Contact :** Technical Department  
E-mail: info@lithofin.de

Emergency telephone number:  
+49 (0)7024 9403-0  
(Only available during office hours)

**1.4 Emergency telephone number**

see section 1.3

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Flammable. · Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · May cause sensitization by skin contact. · Harmful: may cause lung damage if swallowed. · Irritating to eyes and respiratory system.

R 10 · N ; R 51/53 · R 43 · Xn ; R 65 · Xi ; R 36/37 · R 67

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Category 2 ; Toxic to aquatic life with long lasting effects.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - Specific target organ toxicity (single exposure) : Category 3 ; May cause respiratory irritation.

STOT SE 3 ; H336 - Specific target organ toxicity (single exposure) : Category 3 ; May cause drowsiness or dizziness.

**Additional information**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

**Remark**

Full text of R-, H- and EUH-phrases: see section 16.

**2.2 Label elements**

**Labelling (67/548/EEC or 1999/45/EC)**

**Hazard symbols and hazard statements of dangerous substances and preparations**

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Xn ; Harmful



N ; Dangerous for the environment

**Hazard components for labelling**

Orange, sweet, ext. ; CAS No. : 8028-48-6

**R-phrases**

10 Flammable.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
43 May cause sensitization by skin contact.  
65 Harmful: may cause lung damage if swallowed.  
36/37 Irritating to eyes and respiratory system.  
67 Vapours may cause drowsiness and dizziness.

**S-phrases**

29/35 Do not empty into drains; dispose of this material and its container in a safe way.  
61 Avoid release to the environment. Refer to special instructions/safety data sheet.  
62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.  
51 Use only in well-ventilated areas.  
37 Wear suitable gloves.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



Flame (GHS02) · Health hazard (GHS08) · Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

**Signal word**

Danger

**Hazard components for labelling**

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1)  
Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6)  
Orange, sweet, ext. ; CAS No. : 8028-48-6  
Alcohols, C9-11-iso-, C10-rich, ethoxylated ; CAS No. : 78330-20-8  
Poly(oxy-1,2-ethanediy).alpha.-tridecyl-.omega.-hydroxy-, branched ; CAS No. : 69011-36-5

**Hazard statements**

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...  
P331 Do NOT induce vomiting.  
P405 Store locked up.  
P501 Dispose of contents/container to ....

**2.3 Other hazards**

**Adverse physicochemical effects**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which

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have not been certified as intrinsically safe).

## 2.4 Additional information

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

#### Description

Cleaner

#### Hazardous ingredients

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; REACH registration No. : 01-2119458049-33-xxxx ; EC No. : 919-446-0; CAS No. : (64742-82-1)

Weight fraction : 60 - 65 %

Classification 67/548/EEC : R10 N ; R51/53 Xn ; R65 R67 R66

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; REACH registration No. : 01-2119455851-35-xxxx ; EC No. : 918-668-5; CAS No. : (64742-95-6)

Weight fraction : 30 - 35 %

Classification 67/548/EEC : R10 N ; R51/53 Xn ; R65 Xi ; R37 R67 R66

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

Orange, sweet, ext. ; REACH registration No. : 01-2119493353-35-xxxx ; EC No. : 232-433-8; CAS No. : 8028-48-6

Weight fraction : 2,5 - 5 %

Classification 67/548/EEC : R10 N ; R50/53 R43 Xn ; R65 Xi ; R38

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Alcohols, C9-11-iso-, C10-rich, ethoxylated ; CAS No. : 78330-20-8

Weight fraction : 1 - 3 %

Classification 67/548/EEC : Xi ; R41

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318

Poly(oxy-1,2-ethanediyl).alpha.-tridecyl-.omega.-hydroxy-, branched ; REACH registration No. : 02-2119552461-55-xxxx ; EC No. : 500-241-6; CAS No. : 69011-36-5

Weight fraction : 1 - 3 %

Classification 67/548/EEC : Xi ; R41 Xn ; R22

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy- ; EC No. : 500-027-2; CAS No. : 9043-30-5

Weight fraction : 1 - 3 %

Classification 67/548/EEC : Xi ; R41

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318

#### Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation. < 0,1% Benzene, REG(EC) No 1272/2008, Annex VI; J, P

Full text of R-, H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Observe risk of aspiration if vomiting occurs.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

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#### **After ingestion**

Call a physician immediately. Keep at rest. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

#### **Self-protection of the first aider**

First aider: Pay attention to self-protection!

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

No information available.

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

No information available.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Water alcohol resistant foam ABC-powder Carbon dioxide (CO<sub>2</sub>) Water spray

##### **Unsuitable extinguishing media**

Full water jet Strong water jet

#### **5.2 Special hazards arising from the substance or mixture**

##### **Hazardous combustion products**

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>)

#### **5.3 Advice for firefighters**

Use suitable breathing apparatus.

##### **Special protective equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

#### **5.4 Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

#### **6.2 Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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

##### **For cleaning up**

Suitable material for taking up: Universal binder

#### **6.4 Reference to other sections**

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

When using do not eat, drink, smoke, sniff.

##### **Protective measures**

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Skin contact Eye contact Wear personal protection equipment (see chapter 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

##### **Measures to prevent fire**

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of ignition. - No smoking. The product is: Combustible

**Fire class :** B

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep/Store only in original container.

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### Hints on joint storage

**Storage class (TRGS 510) :** 3  
**Recommended storage temperature** 5 - 25 °C

### Further information on storage conditions

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

### 7.3 Specific end use(s)

#### Recommendation

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

|                      |   |
|----------------------|---|
| Limit value type :   | DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) ) |
| Exposure route :     | Inhalation  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 71 mg/m <sup>3</sup>  |
| Limit value type :   | DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )   |
| Exposure route :     | Inhalation  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 32 mg/m <sup>3</sup>  |
| Limit value type :   | DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )   |
| Exposure route :     | Dermal  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 11 mg/kg  |
| Limit value type :   | DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) ) |
| Exposure route :     | Dermal  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 26 mg/kg/d  |
| Limit value type :   | DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) ) |
| Exposure route :     | Oral  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 26 mg/kg/d  |
| Limit value type :   | DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )   |
| Exposure route :     | Oral  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 11 mg/kg  |
| Limit value type :   | DNEL/DMEL (Worker, Systemic) ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )  |
| Exposure route :     | Dermal  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 25 mg/kg  |
| Limit value type :   | DNEL/DMEL (Worker, Systemic) ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )        |
| Exposure route :     | Inhalation  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 330 mg/m <sup>3</sup>   |
| Limit value type :   | DNEL/DMEL (Worker, Systemic) ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )        |
| Exposure route :     | Dermal  |
| Exposure frequency : | Long-term (repeated)  |
| Limit value :        | 44 mg/kg/d  |
| Limit value type :   | DNEL/DMEL (Worker, Systemic) ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )  |
| Exposure route :     | Inhalation  |
| Exposure frequency : | Long-term (repeated)  |

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Limit value : 150 mg/m<sup>3</sup>

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

##### Suitable eye protection

Eye glasses with side protection goggles

##### Required properties

DIN EN 166

#### Skin protection

##### Hand protection

**Suitable gloves type :** Gloves with long cuffs

**Suitable material :** NBR (Nitrile rubber), 0,4mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

**Recommended glove articles :** Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

**Additional hand protection measures :** Check leak tightness/impermeability prior to use.

**Remark :** Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Body protection

Protective clothing.

**Suitable protective clothing :** Chemical protection clothing Chemical resistant safety shoes

**Required properties :** antistatic.

**Recommended protective clothing articles :** DIN EN ISO 20345 DIN EN 13034 DIN EN 14605 DIN EN 14404

**Remark :** Barrier creams are not substitutes for body protection.

#### Respiratory protection

Usually no personal respiratory protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

##### Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

##### Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### General health and safety measures

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** colourless

**Odour :** solvent

#### Safety relevant basis data

|  |              |     |                |                   |  |
|--|--------------|-----|----------------|-------------------|--|
| <b>Freezing point :</b>                    | ( 1013 hPa ) | <   | -13            | °C                |  |
| <b>Boiling temperature/boiling range :</b> | ( 1013 hPa ) | ca. | 167            | °C                |  |
| <b>Decomposition temperature :</b>         | ( 1013 hPa ) |     | not determined |                   |  |
| <b>Flash point :</b>                       |              | ca. | 43             | °C                | closed cup                               |
| <b>Ignition temperature :</b>              |              |     | not determined |                   |  |
| <b>Sustaining combustion</b>               |              |     |                |                   | UN Test L2:Sustained combustibility test |
| <b>Lower explosion limit :</b>             |              |     | not determined |                   |  |
| <b>Upper explosion limit :</b>             |              |     | not determined |                   |  |
| <b>Vapour pressure :</b>                   | ( 50 °C )    | <   | 3000           | hPa               |  |
| <b>Density :</b>                           | ( 20 °C )    | ca. | 0,8            | g/cm <sup>3</sup> | Pyknometer                               |
| <b>Solvent separation test :</b>           | ( 20 °C )    | <   | 3              | %                 |  |
| <b>Water solubility</b>                    | ( 20 °C )    |     | emulsifiable   |                   |  |
| <b>pH value :</b>                          |              |     | not applicable |                   |  |
| <b>log P O/W :</b>                         |              |     | not determined |                   |  |

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Flow time : ( 23 °C ) ca. 12 s ISO cup 4 mm  
Odour threshold : not determined  
Vapourisation rate : not determined  
VOC-FR not applicable

**9.2 Other information**

None

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No information available.

**10.2 Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4 Conditions to avoid**

No hazardous reaction when handled and stored according to provisions.

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute effects**

**Acute oral toxicity**

Parameter : LD50 ( Poly(oxy-1,2-ethanediyl).alpha.-tridecyl-.omega.-hydroxy-, branched ; CAS No. : 69011-36-5 )

Exposure route : Oral

Species : Rat

Effective dose : > 500 - 2000 mg/kg

Method : OECD 423

Parameter : LD50 ( Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy- ; CAS No. : 9043-30-5 )

Exposure route : Oral

Species : Rat

Effective dose : > 2000 mg/kg

Parameter : LD50 ( Alcohols, C9-11-iso-, C10-rich, ethoxylated ; CAS No. : 78330-20-8 )

Exposure route : Oral

Species : Rat

Effective dose : > 5000 mg/kg

Parameter : LD50 ( Orange, sweet, ext. ; CAS No. : 8028-48-6 )

Exposure route : Oral

Species : Rat

Effective dose : > 5000 mg/kg

Parameter : LD50 ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )

Exposure route : Oral

Species : Rat

Effective dose : > 15000 mg/kg

Method : OECD 401

Parameter : LD50 ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )

Exposure route : Oral

Species : Rat

Effective dose : > 2000 - 5000 mg/kg

**Acute dermal toxicity**

Parameter : LC50 ( Orange, sweet, ext. ; CAS No. : 8028-48-6 )

Exposure route : Dermal

Species : Rabbit

Effective dose : > 5000 mg/kg

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Parameter : LD50 ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )  
Exposure route : Dermal  
Species : Rat  
Effective dose : 3400 mg/kg  
Method : OECD 402

**Acute inhalation toxicity**

Parameter : LC50 ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 13100 mg/l  
Method : OECD 403

**Specific symptoms in animal studies**

No data available

**Irritant and corrosive effects**

**Assessment/classification**

Repeated exposure may cause skin dryness or cracking.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity/Genotoxicity**

**In vivo mutagenicity**

**Other information**

No experimental indications of in vivo mutagenicity exist.

**Human toxicological data**

**Other information**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

**Practical experience/human evidence**

No indications of human reproductive toxicity exist.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Acute (short-term) fish toxicity**

Parameter : LC50 ( Poly(oxy-1,2-ethanediyl).alpha.-tridecyl-.omega.-hydroxy-, branched ; CAS No. : 69011-36-5 )  
Species : Fish  
Effective dose : > 1 - 10 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy- ; CAS No. : 9043-30-5 )  
Species : Fish  
Effective dose : > 1 - 10 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( Alcohols, C9-11-iso-, C10-rich, ethoxylated ; CAS No. : 78330-20-8 )  
Species : Fish  
Effective dose : > 10 - 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( Orange, sweet, ext. ; CAS No. : 8028-48-6 )  
Species : Fish  
Effective dose : 0,7 mg/l  
Exposure time : 96 h

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Method : OECD 203  
Parameter : LC50 ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )  
Species : Fish  
Effective dose : > 10 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )  
Species : Fish  
Effective dose : > 1 - 10 mg/l

**Acute (short-term) daphnia toxicity**

Parameter : EC50 ( Poly(oxy-1,2-ethanediyl).alpha.-tridecyl-.omega.-hydroxy-, branched ; CAS No. : 69011-36-5 )  
Species : Daphnia  
Effective dose : > 1 - 10 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega. -hydroxy- ; CAS No. : 9043-30-5 )  
Species : Daphnia  
Effective dose : > 1 - 10 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( Alcohols, C9-11-iso-, C10-rich, ethoxylated ; CAS No. : 78330-20-8 )  
Species : Daphnia  
Effective dose : > 10 - 100 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( Orange, sweet, ext. ; CAS No. : 8028-48-6 )  
Species : Daphnia  
Effective dose : 0,67 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )  
Species : Daphnia  
Effective dose : > 10 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )  
Species : Daphnia  
Effective dose : > 1 - 10 mg/l

**Chronic (long-term) daphnia toxicity**

Parameter : NOEC ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )  
Species : Daphnia  
Effective dose : 0,097 mg/l  
Exposure time : 21 Tage

**Acute (short-term) algae toxicity**

Parameter : IC50 ( Poly(oxy-1,2-ethanediyl).alpha.-tridecyl-.omega.-hydroxy-, branched ; CAS No. : 69011-36-5 )  
Species : Algae  
Effective dose : > 1 - 10 mg/l  
Exposure time : 72 h  
Parameter : IC50 ( Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega. -hydroxy- ; CAS No. : 9043-30-5 )  
Species : Algae  
Effective dose : > 1 - 10 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : IC50 ( Alcohols, C9-11-iso-, C10-rich, ethoxylated ; CAS No. : 78330-20-8 )  
Species : Algae  
Effective dose : > 10 - 100 mg/l  
Exposure time : 72 h  
Parameter : IC50 ( Orange, sweet, ext. ; CAS No. : 8028-48-6 )  
Species : Algae  
Effective dose : 150 mg/l

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Exposure time : 72 h  
Method : OECD 201  
Parameter : IC50 ( Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 0,1 % benzene ; CAS No. : (64742-82-1) )  
Species : Algae  
Effective dose : 4,6 mg/l  
Exposure time : 72 h  
Parameter : IC50 ( Hydrocarbons, C9, aromatics, < 0,1 % Benzene ; CAS No. : (64742-95-6) )  
Species : Algae  
Effective dose : > 1 - 10 mg/l

**Effects in sewage plants**

Observe local regulations concerning effluent treatment.

**12.2 Persistence and degradability**

No data available

**Biodegradation**

The surfactants contained in this preparation 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.

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Other adverse effects**

No data available

**12.7 Further ecological information**

**Additional information**

The product has not been tested.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Dispose according to legislation.

**Product/Packaging disposal**

**Waste codes/waste designations according to EWC/AVV**

**Waste code product**

Waste code (91/689/EEC) : 07 06 04\*

**Waste treatment options**

**Appropriate disposal / Package**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

**13.2 Additional information**

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

**SECTION 14: Transport information**

**14.1 UN number**

UN 1993

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

FLAMMABLE LIQUID, N.O.S. ( TURPENTINE SUBSTITUTE )

**Sea transport (IMDG)**

FLAMMABLE LIQUID, N.O.S. ( TURPENTINE SUBSTITUTE )

**Air transport (ICAO-TI / IATA-DGR)**

FLAMMABLE LIQUID, N.O.S. ( TURPENTINE SUBSTITUTE )

**14.3 Transport hazard class(es)**

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

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**Land transport (ADR/RID)**

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special provisions : 640E · LQ 5 I · E 1  
Hazard label(s) : 3 / N

**Sea transport (IMDG)**

Class(es) : 3  
EmS-No. : F-E / S-E  
Special provisions : LQ 5 I · E 1  
Hazard label(s) : 3 / N

**Air transport (ICAO-TI / IATA-DGR)**

Class(es) : 3  
Special provisions : E 1  
Hazard label(s) : 3

**14.4 Packing group**

III

**14.5 Environmental hazards**

Land transport (ADR/RID) : Yes  
Sea transport (IMDG) : Yes (P)  
Air transport (ICAO-TI / IATA-DGR) : Yes

**14.6 Special precautions for user**

None

**SECTION 15: Regulatory information**

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

**EU legislation**

**Other regulations (EU)**

Regulation (EC) No. 648/2004 (Detergents regulation)

**National regulations**

Observe in addition any national regulations!

**Water hazard class (WGK)**

Class : 2 (Hazardous to water) Classification according to VwVwS

**Other regulations, restrictions and prohibition regulations**

**VOCV-Regulation (CH)**

Maximum VOC content (Switzerland) : 94,4 Wt % according to VOCV

**15.2 Chemical Safety Assessment**

No information available.

**SECTION 16: Other information**

**16.1 Indication of changes**

07. Hints on joint storage - Storage class · 08. Occupational exposure limit values · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR)

**16.2 Abbreviations and acronyms**

None

**16.3 Key literature references and sources for data**

None

**16.4 Relevant R-, H- and EUH-phrases (Number and full text)**

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

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|        |  |
|--------|--|
| H318   | Causes serious eye damage.   |
| H335   | May cause respiratory irritation.  |
| H336   | May cause drowsiness or dizziness.   |
| H410   | Very toxic to aquatic life with long lasting effects.  |
| H411   | Toxic to aquatic life with long lasting effects.   |
| R10    | Flammable.   |
| R22    | Harmful if swallowed.  |
| R36/37 | Irritating to eyes and respiratory system.   |
| R37    | Irritating to respiratory system.  |
| R38    | Irritating to skin.  |
| R41    | Risk of serious damage to eyes.  |
| R43    | May cause sensitization by skin contact.   |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.      |
| R65    | Harmful: may cause lung damage if swallowed.   |
| R66    | Repeated exposure may cause skin dryness or cracking.  |
| R67    | Vapours may cause drowsiness and dizziness.  |

**16.5 Training advice**

None

**16.6 Additional information**

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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