

**Trade name :** Lithofin MN Power-Clean

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

### 1.1 Product identifier

Lithofin MN Power-Clean

### 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

Irritating to eyes.  
Xi ; R 36

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

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.  
Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

#### 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



Xi ; Irritant

#### R-phrases

36 Irritating to eyes.

#### S-phrases

35 This material and its container must be disposed of in a safe way.

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

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26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
25 Avoid contact with eyes.

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

**Hazard pictograms**



Corrosion (GHS05)

**Signal word**

Danger

**Hazard components for labelling**

Propylheptanoethoxilate ; CAS No. : 160875-66-1

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride ; CAS No. : 863679-20-3

**Hazard statements**

H290 May be corrosive to metals.

H318 Causes serious eye damage.

**Precautionary statements**

P102 Keep out of reach of children.

P234 Keep only in original container.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER/doctor/...

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container to ....

**2.3 Other hazards**

**Adverse human health effects and symptoms**

Due to its pH value (see chapter 9), irritation of the skin and eyes cannot be ruled out.

**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**

BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36-xxxx ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : 1 - 5 %

Classification 67/548/EEC : Xn ; R20/21/22 Xi ; R36/38

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

(2-METHOXYMETHYLETHOXY)PROPANOL ; REACH registration No. : 01-2119450011-60-xxxx ; EC No. : 252-104-2; CAS No. : 34590-94-8

Weight fraction : 1 - 5 %

Classification 67/548/EEC : Substance with a common (EC) occupational exposure limit value.

Classification 1272/2008 [CLP] : Substance with a common (EC) occupational exposure limit value.

Propylheptanoethoxilate ; CAS No. : 160875-66-1

Weight fraction : 1 - 3 %

Classification 67/548/EEC : Xi ; R41

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

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride ; CAS No. : 863679-20-3

Weight fraction : 1 - 3 %

Classification 67/548/EEC : Xi ; R41 Xn ; R22 Xi ; R38

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315

**Additional information**

All ingredients of this mixture are (pre)registered according to REACH regulation.

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

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#### 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.

###### 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.

###### After ingestion

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

###### 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. The product itself does not burn. Coordinate fire-fighting measures to the fire surroundings.

#### SECTION 6: Accidental release measures

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

Wear personal protection equipment (see chapter 8). Provide adequate ventilation. Remove persons to safety.

##### 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

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## 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

The product is not: Flammable Usual measures for fire prevention.

**Fire class :** -  
**Shake before use** nein

### 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.

#### Hints on joint storage

**Storage class (TRGS 510) :** 8B  
**Protect from frost** nein  
**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

#### Occupational exposure limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Peak limitation : 4(II)  
Remark : H,Y  
Version : 01.09.2012

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts  
Limit value : 100 mg/l  
Version : 31.03.2004

Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 246 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

(2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 50 ppm / 310 mg/m<sup>3</sup>  
Peak limitation : 1(I)  
Version : 01.09.2012

Limit value type (country of origin) : TWA ( EC )  
Limit value : 50 ppm / 308 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

#### DNEL/DMEL and PNEC values

DNEL/DMEL

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Limit value type :	DNEL/DMEL (DNEL Consumer, Local) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	123 mg/kg
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	38 mg/kg/d
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	49 mg/m <sup>3</sup>
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	3,2 mg/kg/d
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	15 mg/kg/d
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	37,2 mg/m <sup>3</sup>
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	44,5 mg/kg/d
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	426 mg/m <sup>3</sup>
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Oral
Exposure frequency :	Short-term (acute)
Limit value :	13,4 mg/kg/d
Limit value type :	DNEL/DMEL (Worker, Local) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	246 mg/m <sup>3</sup>
Limit value type :	DNEL/DMEL (Worker, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	89 mg/kg/d
Limit value type :	DNEL/DMEL (Worker, Systemic) ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	65 mg/kg/d
Limit value type :	DNEL/DMEL (Worker, Systemic) ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	310 mg/m <sup>3</sup>
Limit value type :	DNEL/DMEL (Worker, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)

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Limit value : 663 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Worker, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 75 mg/kg/d  
Limit value type : DNEL/DMEL (Worker, Systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 98 mg/m<sup>3</sup>

**PNEC**

Limit value type : PNEC aquatic, freshwater ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Limit value : 8,8 mg/l  
Limit value type : PNEC aquatic, freshwater ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Limit value : 19 mg/l  
Limit value type : PNEC aquatic, intermittent release ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Limit value : 190 mg/l  
Limit value type : PNEC aquatic, marine water ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Limit value : 1,9 mg/l  
Limit value type : PNEC aquatic, marine water ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Limit value : 0,88 mg/l  
Limit value type : PNEC sediment, freshwater ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Limit value : 34,6 mg/kg  
Limit value type : PNEC sediment, freshwater ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Limit value : 70,2 mg/kg  
Limit value type : PNEC sediment, marine water ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Limit value : 7,02 mg/kg  
Limit value type : PNEC sediment, marine water ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Limit value : 3,46 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Limit value : 463 mg/l  
Limit value type : PNEC sewage treatment plant (STP) ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Limit value : 4168 mg/l

**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** : Data apply to the main component. Butyl caoutchouc, 0,5mm, >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** : alkali-resistant.

**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.

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### Respiratory protection

Usually no personal respirative 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 :** light yellow

**Odour :** perfumed

#### Safety relevant basis data

<b>Freezing point :</b>	( 1013 hPa )	ca.	-4	°C	
<b>Boiling temperature/boiling range :</b>	( 1013 hPa )	ca.	97	°C	
<b>Decomposition temperature :</b>	( 1013 hPa )		not determined		
<b>Flash point :</b>			not applicable		closed cup
<b>Ignition temperature :</b>			not determined		
<b>Sustaining combustion</b>			No		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.	1	g/cm <sup>3</sup>	Pyknometer
<b>Solvent separation test :</b>	( 20 °C )	<	3	%	
<b>Water solubility</b>	( 20 °C )		miscible		
<b>pH value :</b>		ca.	11		
<b>log P O/W :</b>			not determined		
<b>Flow time :</b>	( 23 °C )	ca.	13	s	ISO cup 4 mm
<b>Odour threshold :</b>			not determined		
<b>Vapourisation rate :</b>			not determined		
<b>VOC-FR</b>			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

The product develops hydrogen in an aqueous solution in contact with metals.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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## 11.1 Information on toxicological effects

### Acute effects

#### Acute oral toxicity

Parameter : LD50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1746 mg/kg  
Parameter : LD50 ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 5135 mg/kg  
Parameter : LD50 ( Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride ; CAS No. : 863679-20-3 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 300 - 2000 mg/kg  
Parameter : LD50 ( Propylheptanoethoxilate ; CAS No. : 160875-66-1 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg

#### Acute dermal toxicity

Parameter : LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Species : Guinea pig  
Effective dose : > 2000 mg/l  
Method : OECD 402  
Parameter : LD50 ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 13000 - 14000 mg/kg  
Parameter : LD50 ( Propylheptanoethoxilate ; CAS No. : 160875-66-1 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg

#### Acute inhalation toxicity

Parameter : LC50 ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 500 mg/l  
Exposure time : 7 h  
Parameter : LD50 ( Propylheptanoethoxilate ; CAS No. : 160875-66-1 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 20,1 mg/l

### Specific symptoms in animal studies

No data available

### Irritant and corrosive effects

#### Assessment/classification

Causes serious eye damage. Causes severe burns.

### 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



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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 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Fish  
Effective dose : 1474 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Species : Fish  
Effective dose : > 10000 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride ; CAS No. : 863679-20-3 )  
Species : Fish  
Effective dose : > 10 - 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( Propylheptanoethoxilate ; CAS No. : 160875-66-1 )  
Species : Fish  
Effective dose : > 10 - 100 mg/l  
Exposure time : 96 h

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

Parameter : NOEC ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Fish  
Effective dose : > 100 mg/l  
Exposure time : 21 Tage

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

Parameter : EC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Daphnia  
Effective dose : 1550 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Species : Daphnia  
Effective dose : 1919 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride ; CAS No. : 863679-20-3 )  
Species : Daphnia  
Effective dose : > 1 - 10 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( Propylheptanoethoxilate ; CAS No. : 160875-66-1 )  
Species : Daphnia  
Effective dose : > 10 - 100 mg/l  
Exposure time : 48 h

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

Parameter : NOEC ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Daphnia  
Effective dose : 100 mg/l  
Exposure time : 21 Tage  
Method : OECD 211

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

Parameter : IC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Algae  
Effective dose : 1840 mg/l  
Exposure time : 72 h  
Method : OECD 201

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Parameter : IC50 ( (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8 )  
Species : Algae  
Effective dose : > 969 mg/l  
Exposure time : 72 h  
Parameter : IC50 ( Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride ; CAS No. : 863679-20-3 )  
Species : Algae  
Effective dose : > 1 - 10 mg/l  
Exposure time : 72 h  
Parameter : IC50 ( Propylheptanoethoxilate ; CAS No. : 160875-66-1 )  
Species : Algae  
Effective dose : > 10 - 100 mg/l  
Exposure time : 72 h

**Effects in sewage plants**

Observe local regulations concerning effluent treatment. Before discharge into sewage plants the product normally needs to be neutralised.

**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 08\*

**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 1719

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

CAUSTIC ALKALI LIQUID, N.O.S. ( Glutamic acid, N,N-diacetic acid, tetrasodium salt )

**Sea transport (IMDG)**

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

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CAUSTIC ALKALI LIQUID, N.O.S. ( Glutamic acid, N,N-diacetic acid, tetrasodium salt )

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

CAUSTIC ALKALI LIQUID, N.O.S. ( Glutamic acid, N,N-diacetic acid, tetrasodium salt )

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

Class(es) : 8  
Classification code : C5  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code : E  
Special provisions : LQ 5 I · E 1

**Sea transport (IMDG)**

Class(es) : 8  
EmS-No. : F-A / S-B  
Special provisions : LQ 5 I · E 1

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

Class(es) : 8  
Special provisions : E 1

**14.4 Packing group**

III

**14.5 Environmental hazards**

Land transport (ADR/RID) : No  
Sea transport (IMDG) : No  
Air transport (ICAO-TI / IATA-DGR) : No

**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 : 1 (Slightly hazardous to water) Classification according to VwVwS

**Other regulations, restrictions and prohibition regulations**

**VOCV-Regulation (CH)**

Maximum VOC content (Switzerland) : 3 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

**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)**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

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

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H319	Causes serious eye irritation.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.

**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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