

Revision date: 18.02.2020

according to Regulation (EC) No 1907/2006

### Bremsenreiniger 300ml

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

#### 1.1. Product identifier

Bremsenreiniger 300ml

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

### Use of the substance/mixture

Cleaner

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

Company name: TUNAP GmbH & Co. KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen

Telephone: +49 (0) 8171/1600 - 0 Telefax: +49 (0) 8171/1600 - 40

e-mail: sdb@tunap.com Internet: www.tunap.com

**1.4. Emergency telephone** +49 (0) 30 30 686 790 (Giftnotruf Berlin)

number:

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

### Regulation (EC) No. 1272/2008

# Hazard components for labelling

2-Propanol Acetone

Hydrocarbons C7-C9, iso-alkanes

Signal word: Danger

Pictograms:





GB - EN

## **Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.
H319 Causes serious eye irritation.



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H336	May cause drowsiness or dizziness.			
H412	Harmful to aquatic life with long lasting effects.			
Precautionary statem	ents			
P102	Keep out of reach of children.			
P101	If medical advice is needed, have product container or label at hand.			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No			
D044	smoking.			
P211	Do not spray on an open flame or other ignition source.			
P251	Do not pierce or burn, even after use.			
P260	Do not breathe spray.			
P280	Wear eye/face protection.			

Use only outdoors or in a well-ventilated area. IF ON SKIN: Wash with plenty of Water and soap.. P302+P352

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if P305+P351+P338

present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. P337+P313

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340

Get medical advice/attention if you feel unwell. P314

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container according to the official regulations.

### 2.3. Other hazards

P271

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. 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

## **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification	•	•		
67-63-0	2-Propanol			25 - < 50 %	
	200-661-7	603-117-00-0	01-2119457558-25		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336			
90622-56-3	Hydrocarbons C7-C9, iso-alkanes			20 - < 25 %	
	921-728-3		01-2119471305-42		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE H411	3, Asp. Tox. 1, Aquatic Chronic 2; H	1225 H315 H336 H304		
67-64-1	Acetone			20 - < 25 %	
	200-662-2	606-001-00-8	01-2119471330-49		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336 EUH066			
1174921-73-3	Hydrocarbons, C9-C10, n-alkanes,	isoalkanes, cyclics, <2% aromatics		3 - < 5 %	
	927-241-2		01-2119471843-32		
	Flam. Liq. 3, STOT SE 3, Asp. Tox	. 1, Aquatic Chronic 3; H226 H336 H	1304 H412 EUH066		
124-38-9	carbon dioxide			3 - < 5 %	
	204-696-9				

Full text of H and EUH statements: see section 16.



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### Labelling for contents according to Regulation (EC) No 648/2004

15 % - < 30 % aliphatic hydrocarbons.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After indestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

### Unsuitable extinguishing media

Full water jet

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

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Danger of bursting container.

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

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

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.



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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

Wear personal protection equipment (refer to section 8).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

### Further information on handling

Avoid contact with skin and eyes.

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

### Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

### Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

#### Further information on storage conditions

Protect from frost. Protect against direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

## 7.3. Specific end use(s)

No information available.

### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

# Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
124-38-9	Carbon dioxide	5000	9150		TWA (8 h)	WEL
		15000	27400		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
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#### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
90622-56-3	Hydrocarbons C7-C9, iso-alkanes			
Worker DNEL	, long-term	inhalation	systemic	2035 mg/m³
Worker DNEL	, long-term	dermal	systemic	773 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	608 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	699 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	699 mg/kg bw/day
1174921-73- 3	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2%	6 aromatics		
Worker DNEL	, long-term	inhalation	systemic	871 mg/m³
Worker DNEL	, long-term	dermal	systemic	77 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	185 mg/m³
Consumer DNEL, long-term		dermal	systemic	46 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	46 mg/kg bw/day

### Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long term exposure: after several previous shifts

d before next shift

blood (B)

Urine (U)

## 8.2. Exposure controls

### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Protective and hygiene measures

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

**DIN EN 166** 

### Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min

Thickness of the glove material 0,45 mm

**EN ISO 374** 

### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..

Filtering device with filter or ventilator filtering device of type: A

Observe the wear time limits as specified by the manufacturer.



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Observe legal regulations and provisions.

#### **Environmental exposure controls**

Observe legal regulations and provisions.

### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Aerosol
Colour: colorless, clear
Odour: characteristic

Test method

pH-Value (at 20 °C): not determined DIN 19268

Changes in the physical state

Melting point: not determined Initial boiling point and boiling range: 56 °C Sublimation point: No information available. Softening point: No information available.

Pour point:

Flash point:

No information available.
-17 °C

Sustaining combustion: No data available

**Flammability** 

Solid: not applicable
Gas: not applicable
Lower explosion limits: 0,7 vol. %
Upper explosion limits: 14,3 vol. %
Ignition temperature: > 200 °C

**Auto-ignition temperature** 

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties** 

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 0,755 g/cm³ DIN 51757

Water solubility:

The study does not need to be conducted because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient:

Viscosity / kinematic:

Vapour density:

Evaporation rate:

not determined

not determined

not determined

9.2. Other information

Solid content: not determined



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Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Extremely flammable aerosol.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

#### 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

### 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

#### **Further information**

Do not mix with other chemicals.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

### **Acute toxicity**

Based on available data, the classification criteria are not met.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	
67-63-0	2-Propanol					
	oral	LD50	5280 mg/kg	Rat		
	dermal	LD50	> 2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50	47,5 mg/l	Rat		
90622-56-3	Hydrocarbons C7-C9, iso-alka	anes				
	oral	LD50 mg/kg	> 7100 - 7800	Rat	Study report (1961)	
	dermal	LD50 mg/kg	> 2200 - 2500	Rabbit	Study report (1961)	
	inhalation (4 h) vapour	LC50	> 21 mg/l	Rat	Study report (1985)	
	inhalation (4 h) aerosol	LC50	>9,4 mg/l	Rat		
67-64-1	Acetone					
	oral	LD50	5800 mg/kg	Rat		
	dermal	LD50	20000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50	76 mg/l	Rat		
1174921-73- 3	1-73- Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics					
	oral	LD50 mg/kg	> 15000	Rat	Study report (1977)	
	dermal	LD50	> 5000 mg/kg	Rabbit	Study report (1993)	
	inhalation (4 h) vapour	LC50	> 4951 mg/l	Rat		

### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

## Sensitising effects

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

# STOT-single exposure

May cause drowsiness or dizziness. (2-Propanol; Hydrocarbons C7-C9, iso-alkanes; Acetone)

# STOT-repeated exposure

Based on available data, the classification criteria are not met.

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

### Specific effects in experiment on an animal

No information available.

## **Practical experience**

### Observations relevant to classification

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



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# **SECTION 12: Ecological information**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	
67-63-0	2-Propanol						
	Acute fish toxicity	LC50	9640 mg/l	96 h	Pimephales promelas		
	Acute algae toxicity	ErC50	> 100 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna		
90622-56-3	Hydrocarbons C7-C9, iso-all	kanes					
	Acute fish toxicity	LC50	1000 mg/l	96 h	Oncorhynchus mykiss	SIDS Initial Assessment Report For SIAM	
	Acute algae toxicity	ErC50	1000 mg/l	72 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM	
	Acute crustacea toxicity	EC50	1000 mg/l	48 h	Daphnia magna	Publication (1986)	
	Fish toxicity	NOEC	0,778 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2009)	
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	
67-64-1	Acetone						
	Acute fish toxicity	LC50	5540 mg/l	96 h	Onchorhynchus mykiss		
	Acute algae toxicity	ErC50	5000 mg/l	96 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	6100 mg/l	48 h	Daphnia magna		
1174921-73- 3	Hydrocarbons, C9-C10, n-all	kanes, isoalka	nes, cyclics, <2%	aromatic	5	_	
	Acute fish toxicity	LC50	>1000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	>1000 mg/l	72 h	Pseudokirchneriella subcapitata		
· ·	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna		
	Fish toxicity	NOEC	0,182 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	
	Crustacea toxicity	NOEC	0,317 mg/l	21 d	Daphnia magna	Company report (2010)	

## 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	2-Propanol	0,05
67-64-1	Acetone	-0,24



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#### **BCF**

CAS No	Chemical name	BCF	Species	Source
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	144,3	calculated	Other company data (

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

#### **Further information**

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

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances; hazardous waste

### List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately

collected municipal packaging waste); metallic packaging

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number:UN 195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1Classification code:5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

### Inland waterways transport (ADN)



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14.1. UN number:UN 195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1Classification code:5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number:UN 195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1Marine pollutant:no

Special Provisions: 63, 190, 277, 327, 344, 381,959

Limited quantity: 1000 mL Excepted quantity: E0 EmS: F-D. S-U

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1950

14.2. UN proper shipping name: AEROSOLS, flammable

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1

Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user
Warning: Flammable gases.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

# **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28

2010/75/EU (VOC): No information available.



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2004/42/EC (VOC): No information available.

### **Additional information**

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

Aerosol directive (75/324/EEC)

### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 2,9,15.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

#### Relevant H and EUH statements (number and full text)

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

H229 Pressurised container: May burst if heated.
H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

### **Further Information**

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)