

**Safety Data Sheet**

according to UK REACH Regulation

**Sanosil TPC-S**

Revision date: 15.09.2023

Product number: 4001302000

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Sanosil TPC-S

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

Acid broadband descaler

Restricted to professional users.

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

Company name:	Sanosil AG	
Street:	Eichtalstrasse 49	
Place:	CH-8634 Hombrechtikon	
Telephone:	055 254 00 54	Telefax: 055 254 00 59
e-mail:	kundeninfo@sanosil.ch	
Contact person:	Peter Gömöri	
Internet:	www.sanosil.ch	

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Skin Corr. 1; H314

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

hydrocarbon acid

2- hydroxyethanoic acid

methylsulphonic acid

Ethylhexyl hydrogen sulfate

**Signal word:** Danger**Pictograms:****Hazard statements**

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P260 Do not breathe vapours.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

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Dispose of contents/container to industrial incineration plant.

**2.3. Other hazards**

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			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
64-18-6	hydrocarbon acid			5 - < 10 %
	200-579-1	607-001-00-0	01-2119491174-37	
	Flam. Liq. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1A; H226 H331 H302 H314			
5949-29-1	citric acid			5 - < 10 %
	201-069-1			
	Eye Irrit. 2; H319			
79-14-1	2- hydroxyethanoic acid			1 - < 2.5 %
	201-180-5		01-2119485579-17	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1B; H290 H332 H314			
75-75-2	methylsulphonic acid			1 - < 2.5 %
	200-898-6	607-145-00-4		
	Met. Corr. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT SE 3; H290 H312 H302 H314 H335			
126-92-1	Ethylhexyl hydrogen sulfate			1 - < 2.5 %
	Skin Irrit. 2, Eye Dam. 1; H315 H318			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64-18-6	200-579-1	hydrocarbon acid	5 - < 10 %
		inhalation: LC50 = 7.85 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); oral: LD50 = 730 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 10 - < 90 Skin Irrit. 2; H315: >= 2 - < 10 Eye Irrit. 2; H319: >= 2 - < 10	
5949-29-1	201-069-1	citric acid	5 - < 10 %
		oral: LD50 = > 7000 mg/kg	
79-14-1	201-180-5	2- hydroxyethanoic acid	1 - < 2.5 %
		inhalation: LC50 = 3.6 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); oral: LD50 = > 2000 mg/kg	
75-75-2	200-898-6	methylsulphonic acid	1 - < 2.5 %
		dermal: LD50 = > 1000 mg/kg; oral: LD50 = 649 mg/kg	
126-92-1		Ethylhexyl hydrogen sulfate	1 - < 2.5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2840 mg/kg	

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

&lt; 5 % anionic surfactants.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**

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**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. If medical advice is needed, have product container or label at hand.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Stomach perforation. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

No known symptoms to date. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
Foam, Carbon dioxide (CO<sub>2</sub>), Dry extinguishing powder, Water spray.

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

The product itself does not burn.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). After cleaning, flush away traces with water. The product needs to apply neutralizing agents before draining to wastewater treatment plants. Treat the recovered material as prescribed in the section on waste disposal. Dispose according to legislation.

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**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**

After use replace the closing cap immediately. Avoid contact with skin and eyes. Wear personal protection equipment. Observe instructions for use. Use only in well-ventilated areas.

**Advice on protection against fire and explosion**

The product is not: Combustible.

The product is not: Explosive.

**Advice on general occupational hygiene**

Keep eye rinsing device ready. Avoid contact with skin and eyes. Avoid breathing vapours/spray. Change contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Apply skin care products after work.

**Further information on handling**

No special handling instructions are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep/Store only in original container. Keep container tightly closed. Protect from direct sunlight. Store in a cool dry place. Recommended storage temperature: at room temperature. Store in a place accessible by authorized persons only. Keep container in a well-ventilated place.

**Hints on joint storage**

Do not store together with: Alkali (lye), Food and fodder.

**Further information on storage conditions**

Minimum storage temperature: 5°C

Maximum storage temperature: 30°C

**Storage class (TRGS 510):**

8B (Non-combustible corrosive substances)

**7.3. Specific end use(s)**

Follow the instructions for use on the label.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-18-6	Formic acid	5	9.6		TWA (8 h)	WEL

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#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
64-18-6	hydrocarbon acid			
Worker DNEL, long-term		inhalation	local	9.5 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	19 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	9.5 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	19 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	3 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	3 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	9.5 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	9.5 mg/m <sup>3</sup>
126-92-1	Ethylhexyl hydrogen sulfate			
Worker DNEL, long-term		inhalation	systemic	285 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	4060 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	85 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	2440 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	24 mg/kg bw/day

#### PNEC values

CAS No	Substance	Value
64-18-6	hydrocarbon acid	
Freshwater		2 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0.2 mg/l
Freshwater sediment		13.4 mg/kg
Marine sediment		1.34 mg/kg
Micro-organisms in sewage treatment plants (STP)		7.2 mg/l
Soil		1.5 mg/kg
126-92-1	Ethylhexyl hydrogen sulfate	
Freshwater		0.136 mg/l
Marine water		0.0136 mg/l
Freshwater sediment		1.5 mg/kg
Marine sediment		0.15 mg/kg
Micro-organisms in sewage treatment plants (STP)		1.35 mg/l
Soil		0.22 mg/kg

#### 8.2. Exposure controls



Individual protection measures, such as personal protective equipment

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**Eye/face protection**

Tightly sealed safety glasses. Eye-pieces out of plastic. EN 166

**Hand protection**

Recommended gloves for permanent contact:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material:  $\geq 0,7$  mmBreakthrough time:  $\leq 480$  min

Observe the wear time limits as specified by the manufacturer.

Recommended gloves for splash protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material:  $\geq 0,4$  mmBreakthrough time:  $\leq 30$  min

Observe the wear time limits as specified by the manufacturer.

**Skin protection**

Only wear fitting, comfortable and clean protective clothing.

**Respiratory protection**

Usually no personal respirative protection necessary. Avoid breathing vapours/spray.

Respiratory protection necessary at: exceeding exposure limit values, aerosol or mist formation. Suitable respiratory protection apparatus: A2-P2 Combination filtering device

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid	
Colour:	red	
Odour:	characteristic	
Boiling point or initial boiling point and boiling range:		No data available
Flash point:		No data available
pH-Value:		0.0 - 1.0
Water solubility:		completely miscible
Density:		1.050 - 1.090 g/cm <sup>3</sup>

**9.2. Other information**

none

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

Exothermic reaction with: Alkalis (alkalis).

**10.4. Conditions to avoid**

Protect against: Frost, Heat.

Protect from sunlight.

**10.5. Incompatible materials**

May be corrosive to metals.

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#### 10.6. Hazardous decomposition products

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

##### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-18-6	hydrocarbon acid				
	oral	LD50 730 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 7.85 mg/l	Rat		
	inhalation dust/mist	ATE 0.5 mg/l			
5949-29-1	citric acid				
	oral	LD50 > 7000 mg/kg	Rat		
79-14-1	2- hydroxyethanoic acid				
	oral	LD50 > 2000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 3.6 mg/l	Rat		
	inhalation dust/mist	ATE 1.5 mg/l			
75-75-2	methylsulphonic acid				
	oral	LD50 649 mg/kg	(Rat)		
	dermal	LD50 > 1000 mg/kg	(Rabbit)		
126-92-1	Ethylhexyl hydrogen sulfate				
	oral	LD50 2840 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		

##### Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data)

Causes serious eye damage. (On basis of test data)

##### 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.

##### STOT-single exposure

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

##### 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.

##### Additional information on tests

Classification according to Regulation (EC) No 1272/2008 [CLP] Calculation method. The product has not been

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tested.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64-18-6	hydrocarbon acid					
	Acute fish toxicity	LC50 130 mg/l	96 h	Danio rerio (zebrafish)	OECD 203	
	Acute algae toxicity	ErC50 1240 mg/l	72 h	Selenastrum capricornutum	OECD 201	
	Acute crustacea toxicity	EC50 365 mg/l	48 h	Daphnia magna	OECD 202	
	Fish toxicity	NOEC >=100 mg/l	21 d	Daphnia magna (Big water flea)	OECD 211	
5949-29-1	citric acid					
	Acute fish toxicity	LC50 440 - 760 mg/l	96 h	Leuciscus idus (golden orfe)		
	Acute crustacea toxicity	EC50 ca. 120 mg/l	48 h	Daphnia magna		
79-14-1	2- hydroxyethanoic acid					
	Acute fish toxicity	LC50 115 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 15.3 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 99.6 mg/l	48 h	Daphnia magna		OECD 202
75-75-2	methylsulphonic acid					
	Acute fish toxicity	LC50 73 mg/l	96 h	(Oncorhynchus mykiss)		
	Acute algae toxicity	ErC50 12 - 24 mg/l	72 h	(Selenastrum capricornutum)		
	Acute crustacea toxicity	EC50 10 - 100 mg/l	48 h	(Daphnia magna)		
126-92-1	Ethylhexyl hydrogen sulfate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 > 511 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 483 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC > 1357 mg/l	42 d	Pimephales promelas (fathead minnow)		
	Crustacea toxicity	NOEC 1.4 mg/l	21 d	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(EC50 135 mg/l)	3 h			

### 12.2. Persistence and degradability

The product has not been tested. The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.



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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64-18-6	hydrocarbon acid			
	Biodegradable. OECD 301	100 %	9	
	Easily biodegradable (concerning to the criteria of the OECD)			
5949-29-1	citric acid			
	Biological degradation:	> 98%	2	
	OECD 302C			
126-92-1	Ethylhexyl hydrogen sulfate			
	OECD 301B	89 %	28	
	Readily biodegradable (according to OECD criteria).			

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-18-6	hydrocarbon acid	-2.1
126-92-1	Ethylhexyl hydrogen sulfate	-0.248

#### BCF

CAS No	Chemical name	BCF	Species	Source
64-18-6	hydrocarbon acid	3.2		

#### 12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

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

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

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

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

There are no data available on the mixture itself.

#### Further information

Classification according to Regulation (EC) No 1272/2008 [CLP] Calculation method. The product has not been tested.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

##### List of Wastes Code - used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

##### List of Wastes Code - contaminated packaging

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200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

#### Contaminated packaging

Completely emptied packages and rinsed out with plenty of water can be disposed of as refuse. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 3265  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (hydrocarbon acid / 2- hydroxyethanoic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C3  
 Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 80  
 Tunnel restriction code: E

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 3265  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (hydrocarbon acid / 2- hydroxyethanoic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C3  
 Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 3265  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (hydrocarbon acid / 2- hydroxyethanoic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: 274  
 Limited quantity: 1 L

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Excepted quantity: E2  
EmS: F-A, S-B  
Segregation group: 1 - acids

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

**14.1. UN number or ID number:** UN 3265  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(hydrocarbon acid / 2- hydroxyethanoic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Special Provisions: A3 A803  
Limited quantity Passenger: 0.5 L  
Passenger LQ: Y840  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 851  
IATA-max. quantity - Passenger: 1 L  
IATA-packing instructions - Cargo: 855  
IATA-max. quantity - Cargo: 30 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 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 3, Entry 40, Entry 75

##### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water  
Status: Classification of mixtures according to AwSV annex 1, no. 5 (D)

##### Additional information

Water hazard class (CH): Class B (Self-classification)

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

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

H226 Flammable liquid and vapour.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.

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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

**Further Information**

For industrial purposes only. Follow the instructions for use on the label. 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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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*