

Trade name: X CALC

Substance number: SUB302020180000

Version: 14 / EU

Date revised: 28.03.2022

the date of issue: 09.03.07

Replaces Version: 13 / EU

Print date: 29.06.2022

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

1.1. Product identifier

X CALC

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

Use of the substance/preparation

Powerful, liquid descaler. For industrial application only.

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
A-5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-Mail regulatoryaffairs@hagleitner.com
Information provided Regulatory Affairs
by / telephone
E-mail address of regulatoryaffairs@hagleitner.com
person responsible
for this SDS

Address/Supplier

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
AT5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

1.4. Emergency telephone number

Anti Poison Center Vienna: +43 (0)1 406 4343

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)
Met. Corr. 1 H290
Skin Corr. 1B H314
Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

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2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.

Precautionary statements

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

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains methanesulphonic acid

Supplemental information

For industrial application only.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

methanesulphonic acid

CAS No.	75-75-2				
EINECS no.	200-898-6				
Concentration	>=	10	<	20	%
Classification (Regulation (EC) No. 1272/2008)	Skin Corr. 1B		H314		

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

Remove contaminated clothing immediately and dispose of safely.

After inhalation

When spray fog inhaled, seek medical aid immediately and show the physician the packing or the packing label. Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Seek medical advice immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Shield unaffected eye. Eye treatment by an Oculist.

After ingestion

Do not induce vomiting. Drink water in small gulps. Never give anything by mouth to an unconscious person. Take medical treatment.

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

The following symptoms may occur: Shortness of breath, Gastrointestinal complaints

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

Hints for the physician / hazards

Risk of stomach perforation; Risk of respiratory disorders

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

None known

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Wear full protective suit. In case of combustion use a suitable breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol. High risk of slipping due to leakage/spillage of product. Refer to protective measures listed in Sections 7 and 8.

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6.2. Environmental precautions

Do not discharge into surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Pump off large amounts. Rinse away rest with plenty of water. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle and open container with care. Observe the usual precautions for handling chemicals. Use only acid resistant equipment.

Advice on protection against fire and explosion

The product is not combustible. No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value \geq 5 \leq 25 °C

Storage stability

Storage life: 3 years

Requirements for storage rooms and vessels

Keep only in original packaging. Provide acid-resistant floor.

Hints on storage assembly

Do not store together with: Alkalis, Do not store together with foodstuffs.

Further information on storage conditions

Protect from frost. Keep container tightly closed; open and handle with care.

7.3. Specific end use(s)

Powerful, liquid descaler. For industrial application only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Maintain air concentrations below occupational exposure standards.

8.2. Exposure controls

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages.

Respiratory protection

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Not necessary, but do not inhale vapours. Breathing apparatus in the event of aerosol or mist formation.

Hand protection

Gloves (acid-resistant)			
Appropriate Material	neoprene		
Material thickness	=	0,35	mm
Breakthrough time	>	480	min
Gloves (acid-resistant)			
Appropriate Material	butyl		
Material thickness	=	0,5	mm
Breakthrough time	>	480	min

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

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

Form	liquid
Colour	colourless
Odour	slight, product specific
pH value	
Value	< 2,0
Concentration/H ₂ O	100 %
Temperature	20 °C
Remarks	acidic
Value	appr. 3
Concentration/H ₂ O	100 g/l
Temperature	20 °C
Freezing point	
Value	appr. -4 to 4 °C
Sublimation point	
Remarks	not determined
Initial boiling point and boiling range	
Value	appr. 100 °C
Flash point	
Value	> 100 °C
Remarks	Not applicable
Evaporation rate	
Remarks	not determined
Evaporation rate (ether = 1) :	
Remarks	not determined
Flammability (solid, gas)	
Not applicable	

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Upper/lower flammability or explosive limits

Remarks Not applicable

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value	1,08		g/cm ³
Temperature	20	°C	

Solubility in water

Remarks miscible in all proportions

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Decomposition temperature

Remarks No decomposition if used as prescribed.

Viscosity

Remarks not determined

Oxidising properties

evaluation None known

9.2. Other information**Bulk density**

Remarks not determined

Packed bulk density

Remarks not determined

Solids content

Remarks not determined

Surface tension

Remarks not determined

Other information

None known

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

Reactions with alkalis. Reactions with various metals.

10.2. Chemical stability

Protect from extreme heat and cold.

10.3. Possibility of hazardous reactions

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Protect from contamination.

10.4. Conditions to avoid

Keep at temperature not exceeding 30 °C. Do not store at temperatures below -5 °C.

10.5. Incompatible materials

Corrosive to metals. Incompatible with alkaline substances .

10.6. Hazardous decomposition products

Hazardous determin decomposition products: Hydrogen

Other information

When diluting, add acids to water, never the other way around. Corrosive to metals.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**ATE 2.564,76 mg/kg
02

Method calculated value (Regulation (EC) No. 1272/2008)

Acute dermal toxicityATE 5.642,47 mg/kg
24

Method calculated value (Regulation (EC) No. 1272/2008)

Skin corrosion/irritation

evaluation strongly corrosive

Serious eye damage/irritation

evaluation strongly corrosive

Sensitization

evaluation non-sensitizing

Subacute, subchronic, chronic toxicity

Remarks No data available

Mutagenicity

Remarks No data available

Reproductive toxicity

Remarks No data available

Carcinogenicity

Remarks No data available

Specific Target Organ Toxicity (STOT)

Remarks No data available

Experience in practice

Product is severely caustic.

Other information

Product specific toxicological data are not known.

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SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

12.2. Persistence and degradability

General information

No data available

12.3. Bioaccumulative potential

General information

No data available

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

No data available

12.5. Results of PBT and vPvB assessment

General information

Not applicable

12.6. Other adverse effects

General information

not determined

Behaviour in sewers [waste treatment plants]

When low concentrations are discharged correctly into adapted biological sewage treatment plants, disturbance of the degradation activity of activated sludge is not likely.

General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 52102

Dispose of as hazardous waste.

Disposal recommendations for packaging

EWC waste code 20 01 39 plastics

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Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	3265	3265	3265
14.2. UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (methanesulphonic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (methanesulphonic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (methanesulphonic acid)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	-		-

Information for all modes of transport**14.6. Special precautions for user**

The relevant transport regulations have to be considered.

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

not determined

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

less than 5 %:

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phosphonates, non-ionic surfactants

Water Hazard Class (Germany)

Water Hazard Class WGK 1

(Germany)

Remarks

Classification according to Annex 4 VwVwS

VOC

VOC (CH) = 0 %

VOC (EU) = 0 %

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Alterations/supplements: Alterations to the previous edition are marked with an asterisk (*) in the left-hand margin.

Hazard statements listed in Chapter 3

H314 Causes severe skin burns and eye damage.

CLP categories listed in Chapter 3

Skin Corr. 1B Skin corrosion, Category 1B

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CAS: Chemical Abstracts Service

VOC: Volatile Organic Compound

INCI: International Nomenclature of Cosmetic Ingredients

ICAO: International Civil Aviation Organization

NOEL: No observable effect level

NOEC: No observable effect concentration

LC: Lethal concentration

LC: Lethal concentration

DNEL: Derived no effect level

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

IMO: International Maritime Organization

PNEC: Predicted no effect concentration

EU: European Union

EC: European Community

CEFIC: European Chemical Industry Council

UN: United Nations

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

