Printing date 26.03.2024

Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

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

#### **1.1 Product identifier**

#### Trade name: Kalklöser

UFI: CX20-K0G0-700J-AY40

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

Application of the substance / the mixture Deliming agent

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

#### Manufacturer/Supplier:

Uni Sapon GmbH Industriepark Runa Albert-Schädler-Straße 7 A-6800 Feldkirch T: +43 5522 23440 Email: office@uni-sapon.com

#### Further information obtainable from:

Marion Reichart Email: marion@uni-sapon.com

#### 1.4 Emergency telephone number:

+43 5522 23440 Available during office hours: Mo - Th: 08.00 - 12.00 h und 13.30 - 16.30 h Fr: 08.00 - 12.00 h

#### Call the national emergency number!

#### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2H319 Causes serious eye irritation.STOT SE 3H335 May cause respiratory irritation.

#### 2.2 Label elements

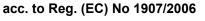
#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. **Hazard pictograms** 



Signal word Warning

(Contd. on page 2)



Printing date 26.03.2024

Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

### Trade name: Kalklöser

(Contd. of page 1)

Hazard-determining components of labelling:		
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate		
Hazard statements		
H319 Causes serious eye irritation.		
H335 May cause	respiratory irritation.	
Precautionary st	atements	
P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P271 Use only outdoors or in a well-ventilated area.		
P280 Wear eye protection / face protection.		
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		
	present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P405 Store locked up.		
P501	Dispose of contents/container in accordance with local/regional/national/international	
regulations.		
2.3 Other hazard	S	
Results of PBT and vPvB assessment		

**PBT:** The mixture does not contain PBT substances  $\ge 0,1$  %.

**vPvB:** The mixture does not contain vPvB substances  $\ge 0,1$  %.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine-disrupting properties  $\ge 0.1$  %(w/w).

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 5949-29-1 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42-XXXX	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate	50-100%
CAS: 87-69-4 EINECS: 201-766-0 RTECS: WW 7875000 Reg.nr.: 01-2119537204-47-XXXX	(+)-tartaric acid	<2.5%
Additional information: For the wording of the listed hazard phrases refer to section 16.		

#### SECTION 4: First aid measures

# 4.1 Description of first aid measures General information:

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

acc. to Reg. (EC) No 1907/2006

Printing date 26.03.2024

Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

#### Trade name: Kalklöser

(Contd. of page 2) After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Wash with plenty of soap and water. Seek medical treatment in case of complaints. After eye contact: Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical treatment. After swallowing:

#### Rinse mouth.

Do NOT induce vomiting.

Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

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

#### 5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: COx

#### 5.3 Advice for firefighters

#### Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

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

Restricted access to the affected area until cleaning work is completed.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with skin and eyes.
Dust can combine with air to form an explosive mixture.
Avoid formation of dust.
Avoid breathing dust.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Pick up mechanically.
Avoid formation of dust.
Clean again.

acc. to Reg. (EC) No 1907/2006

Printing date 26.03.2024

Version number 1.4 (replaces version 1.3)

Page 4/11

Revision: 26.03.2024

(Contd. of page 3)

#### Trade name: Kalklöser

Dispose contaminated material as waste according to section 13. 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Ensure good ventilation. Keep receptacles tightly sealed. Avoid contact with skin and eyes. Avoid breathing dust. Use personal protective equipment as required. Observe protective measures and safety instructions. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. 7.2 Conditions for safe storage, including any incompatibilities

## Storage:

#### Requirements to be met by storerooms and receptacles:

Store in a dry, cool, well-ventilated area.

Unsuitable container material: Metals

Store in accordance with local/regional/national/international regulations.

#### Information about storage in one common storage facility:

Store away from oxidising agents.

Do not store together with alkalis (caustic solutions).

#### Further information about storage conditions:

Keep container tightly sealed.

Protect from heat and direct sunlight.

#### Recommended storage temperature: room temperature

#### Storage class: 11

7.3 Specific end use(s) No further relevant information available.

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

#### 8.1 Control parameters

CAS: 5949-29-1 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate		
AGW (Germany) Long-term value: 2 E mg/m³ 2(I);DFG, Y		
CAS: 87-69-4 (+)-tartaric acid		
AGW (Germany) Long-term value: 2 E mg/m <sup>3</sup> 2(I);DFG, Y		

(Contd. on page 5)

acc. to Reg. (EC) No 1907/2006

Printing date 26.03.2024

DNIEL

Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

#### Trade name: Kalklöser

Regulatory information AGW (Germany): TRGS 900

DNELS		
CAS: 87-69-4 (+)-tartaric acid		
Oral	Long-term exposure - systemic effects	8.1 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	1.5 mg/kg bw/d (consumer)
		2.9 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	1.3 mg/m³ (consumer)
		5.2 mg/m³ (workers)
PNECs	I	

CAS: 87-69-4 (+)-tartaric acid	
fresh water	0.312 mg/l
sea water	0.312 mg/l
intermittent release (fresh water)	0.514 mg/l
STP	10 mg/l
sediment (fresh water)	1.141 mg/kg dw
sediment (sea water)	1.141 mg/kg dw
soil	0.045 mg/kg dw
 	· · · · · · · · · · · · · · · · · · ·

#### **Regulatory information**

#### Additional Occupational Exposure Limit Values for possible hazards during processing:

The national dust limits must be observed in the event of dust generation.

Additional information: The lists valid during the making were used as basis.

#### 8.2 Exposure controls

#### Appropriate engineering controls

No further data; see section 7.

Technical measures and the use of suitable working methods take priority over the use of personal protective equipment.

#### Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing.

Prevent formation of dust.

Avoid breathing dust.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

(Contd. on page 6)

(Contd. of page 4)



acc. to Reg. (EC) No 1907/2006

Printing date 26.03.2024

Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

## Trade name: Kalklöser

(Contd. of page 5)

### Hand protection



Protective gloves

#### EN 374

#### Material of gloves

Nitrile rubber gloves; recommended material thickness: 0.11 mm, penetration time: >480 min min The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye/face protection



Tightly sealed goggles

#### EN 166

**Body protection:** Protective work clothing **Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.

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

#### 9.1 Information on basic physical and chemical properties

General Information	
Physical state	Solid
Colour:	White
Odour:	Odourless
Odour threshold:	No information available.
Melting point/freezing point:	No information available.
Boiling point or initial boiling point and boiling	
range	No information available.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	No information available.
Upper:	No information available.
Flash point:	Not applicable.
Decomposition temperature:	>170 °C
pH at 20 °C	2.1 (10%)
Viscosity:	
Kinematic viscosity	Not applicable.

acc. to Reg. (EC) No 1907/2006



Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

#### Trade name: Kalklöser

Dumourieu	(Contd. of page 6)
Dynamic:	Not applicable.
Solubility water:	Soluble.
Partition coefficient n-octanol/water (log val	
5949-29-1 1,2,3-Propanetricarboxylic acid, 2-h	·
Vapour pressure:	Not applicable.
Density and/or relative density	Not applicable.
Density:	No information available.
Vapour density	Not applicable.
Particle characteristics	
See section 3.	
0.2 Other information	
9.2 Other information	
Appearance: Form:	Granulate
Important information on protection of h	
and environment, and on safety.	outin
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
	Dust can combine with air to form an explosive
	mixture.
Change in condition	
Softening point/range	
Oxidising properties	No information available.
Evaporation rate	Not applicable.
Information with regard to physical ha	zard
classes	
Explosives	void
Flammable gases	void
Aerosols	void
Oxidising gases	void
Gases under pressure	void
Flammable liquids	void
Flammable solids	void
Self-reactive substances and mixtures	void
Pyrophoric liquids	void
Pyrophoric solids	void
Self-heating substances and mixtures	void
Substances and mixtures, which emit flamn	
gases in contact with water	void
Oxidising liquids	void
Oxidising solids	void
Organic peroxides	void
Corrosive to metals	void (Contd. on page 8)
	(Conta. of page 8)

acc. to Reg. (EC) No 1907/2006

Printing date 26.03.2024

Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

#### Trade name: Kalklöser

#### **Desensitised explosives**

void

(Contd. of page 7)

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

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Release of crystal water when heated.

#### 10.3 Possibility of hazardous reactions

Violent reactions with:

Metals, strong oxidizing agents, alkalis, reducing agents.

#### 10.4 Conditions to avoid

Protect from heat and direct sunlight.

Protect from frost.

10.5 Incompatible materials: Metals, strong oxidizing agents, alkalis, reducing agents.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values relevant for classification:

CAS: 5949-29-1 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate

Oral LD50 5,400 mg/kg (mouse)

Dermal LD50 > 2,000 mg/kg (rat)

CAS: 87-69-4 (+)-tartaric acid

Oral LD50 > 2,000 mg/kg (rat)

Dermal LD50 > 2,000 mg/kg (rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

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

#### STOT-single exposure

May cause respiratory irritation.

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.

11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

(Contd. on page 9)



Page 8/11

acc. to Reg. (EC) No 1907/2006

Printing date 26.03.2024

Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

#### Trade name: Kalklöser

(Contd. of page 8)

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Aquatic toxicity:

#### CAS: 5949-29-1 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate

LC50 (96 h) 440 mg/l (fish) (Leuciscus idus) OECD 203

EC50 (24 h) 1,535 mg/l (daphnia) (Daphnia magna)

#### CAS: 87-69-4 (+)-tartaric acid

LC50 (96 h) > 100 mg/l (fish)

#### 12.2 Persistence and degradability

5949-29-1 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate 98 % (2 d)

#### 12.3 Bioaccumulative potential

5949-29-1 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate -1,72 log Kow

**12.4 Mobility in soil** No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

**PBT:** The mixture does not contain PBT substances  $\geq$  0,1 %.

**vPvB:** The mixture does not contain vPvB substances  $\geq 0,1$  %.

#### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

#### Additional ecological information:

#### General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

#### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Only dispose of product residues via authorised companies according to local legislation.

#### European waste catalogue

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

20 01 14\* acids

#### Uncleaned packaging:

#### **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

acc. to Reg. (EC) No 1907/2006

Printing date 26.03.2024

Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

Page 10/11

#### Trade name: Kalklöser

(Contd. of page 9)

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

#### **SECTION 14: Transport information**

14.1 UN number or ID number	
ADR/RID/ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name	
ADR/RID/ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR/RID/ADN, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	
ADR/RID/ADN, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO	)
instruments	Not applicable.
UN "Model Regulation":	not regulated

#### **SECTION 15: Regulatory information**

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**REGULATION (EU) 2019/1148** 

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

#### National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

(Contd. on page 11)

acc. to Reg. (EC) No 1907/2006

Printing date 26.03.2024



Version number 1.4 (replaces version 1.3)

Revision: 26.03.2024

#### Trade name: Kalklöser

(Contd. of page 10)

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### **Relevant phrases**

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### **Training hints**

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.

#### Classification according to Regulation (EC) No 1272/2008

Serious eye damage/irritation	The classification of the mixture is generally based on the
Specific target organ toxicity (single exposure)	calculation method using substance data according to
	Regulation (EC) No 1272/2008.

#### Department issuing SDS:

UmEnA GmbH http://umena.at Email: office@umena.at Date of previous version: 15.12.2022 Version number of previous version: 1.3 Abbreviations and acronyms: ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 \* Data compared to the previous version altered.

EU