

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser_00311968_Descaler

Page 2 of 9

Pictograms:



Hazard statements

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

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P280 Wear protective gloves and eye/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 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.
 P405 Store locked up.

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 according to Regulation (EC) No. 1272/2008 [CLP]			
5329-14-6	sulfamic acid			10 - < 15 %
	226-218-8			
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3; H315 H319 H412			
7664-38-2	phosphoric acid			1 - < 5 %
	231-633-2	015-011-00-6	01-2119485924-24	
	Skin Corr. 1B; H314			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

- Remove contaminated, saturated clothing immediately.
 Avoid contact with skin, eyes and clothes.

After inhalation

- Provide fresh air.
 Rinse mouth immediately and drink plenty of water.
 Seek medical attention if problems persist.

After contact with skin

- Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with: Water.
 In case of skin irritation, seek medical treatment.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser_00311968_Descaler

Page 3 of 9

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Let water be drunk in little sips (dilution effect).
Call a physician immediately.

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

No data available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet / Foam / Carbon dioxide (CO₂) / Dry extinguishing powder / Extinguishing powder
Co-ordinate fire-fighting measures to the fire surroundings.
The product itself does not burn.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:
Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
Wear chemical resistant suit.
In case of fire and/or explosion do not breathe fumes.

Additional information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not allow uncontrolled leakage of product into the environment.

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).

6.4. Reference to other sections

Personal protection equipment: see section 8
Safe handling: see section 7

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.
Do not mix with alkali.

Advice on protection against fire and explosion

No special precautionary measures are necessary.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser_00311968_Descaler

Page 4 of 9

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Store only in original container.
- Unsuitable materials for Container: metal.
- Do not store at temperatures below: 5 °C

Hints on joint storage

- Keep away from food, drink and animal feedingstuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

- Avoid contact with skin, eyes and clothes. Take off immediately all contaminated clothing.
- Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

Eye/face protection

- Eye protection: Filling and transfer.

Hand protection

- Tested protective gloves are to be worn: Suitable material: PVC (Polyvinyl chloride). NR (Natural rubber (Caoutchouc), Natural latex). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). FKM (fluororubber).
- Breakthrough times and swelling characteristics of the material must be taken into consideration.

Skin protection

- Wear suitable protective clothing.

Respiratory protection

- With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	odourless
pH-Value (at 20 °C):	1,0

Changes in the physical state

Melting point:	not relevant
Initial boiling point and boiling range:	not relevant
Sublimation point:	not relevant
Softening point:	not relevant
Pour point:	not relevant
Flash point:	not relevant

Flammability

Solid:	Don't decide
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser_00311968_Descaler

Page 5 of 9

Gas: Don't decide

Explosive properties

not relevant

Lower explosion limits: Don't decide

Upper explosion limits: Don't decide

Ignition temperature: not relevant

Auto-ignition temperature

Solid: Don't decide

Gas: Don't decide

Oxidizing properties

Don't decide

Vapour pressure: not relevant

Density (at 20 °C): 1,065 g/cm³

Bulk density: Don't decide

Water solubility: complete miscible

Partition coefficient: Don't decide

Viscosity / dynamic: Don't decide

Viscosity / kinematic: Don't decide

Flow time: Don't decide

Vapour density: Don't decide

Evaporation rate: Don't decide

Solvent separation test: Don't decide

Solvent content: Don't decide

9.2. Other information

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

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

Materials to avoid: Alkalis (alkalis), concentrated. May be corrosive to metals (H290)

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

Phosphorus compounds, Nitrogen oxides (NOx). Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser_00311968_Descaler

Page 6 of 9

Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
5329-14-6	sulfamic acid					
	oral	LD50 mg/kg	3160	Rat		

Irritation and corrosivity

Causes severe skin burns and eye damage.

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.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the preparation/mixture itself.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
5329-14-6	sulfamic acid					
	Acute fish toxicity	LC50	70,3 mg/l	96 h	Pimephales promelas	

12.2. Persistence and degradability

not relevant

12.3. Bioaccumulative potential

There are no data available on the preparation/mixture itself.

12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

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

Damaging effect by pH moving.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Contaminated packaging

Completely emptied packings can be re-cycled.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser_00311968_Descaler

Page 7 of 9

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: phosphoric acid, sulphamidic acid; sulphamic acid; sulfamic acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
	
Classification code:	C1
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number:	UN 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: phosphoric acid, sulphamidic acid; sulphamic acid; sulfamic acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
	
Classification code:	C1
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number:	UN 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: phosphoric acid and sulphamic acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
	
Special Provisions:	223, 274
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-B
Segregation group:	acids

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser_00311968_Descaler

Page 8 of 9

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: phosphoric acid and sulphamic acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
	
Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

The product is: corrosive.

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

Additional information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalklöser_00311968_Descaler

Page 9 of 9

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.)