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# Safety data sheet according to 1907/2006/EC, Article 31

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking
· 1.1 Product identifier
<ul> <li>Trade name: <u>Alfa P-Scale / Kalklöser P</u></li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> <li>Application of the substance / the mixture Deliming agent Corrosion inhibitors</li> </ul>
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Supplier: Alfa Laval Lund AB Box 74 SE-221 00 Lund Sweden +46 46 36 65 00 info.se@alfalaval.com</li> </ul>
<ul> <li>Further information obtainable from: For further questions regarding the safety data sheet, please contact your local Alfa Laval Sales Company which you find at www.alfalaval.com or in section 16 "Other Information" in the end of the safety data sheet</li> <li>1.4 Emergency telephone number: For immediate, life-threatening emergencies, call 999 For health advice and information (24h) dial 111 (NHS direct).</li> </ul>
In Europe: Call 112 and ask for poison information.
SECTION 2: Hazards identification
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>Skin Corr. 1 H314 Causes severe skin burns and eye damage.</li> <li>Eye Dam. 1 H318 Causes serious eye damage.</li> <li>Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.</li> </ul>
<ul> <li>• 2.2 Label elements</li> <li>• Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.</li> <li>• Hazard pictograms</li> </ul>
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## Trade name: Alfa P-Scale / Kalklöser P

P280	Contd. of page 1) Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P3	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skil with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contac lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national international regulations.
2.3 Other haza	-
Results of PRT	and vPvB assessment

- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

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

- · 3.2 Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 5329-14-6	sulphamidic acid	50-100%
EINECS: 226-218-8	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 77-92-9	citric acid	25-50%
EINECS: 201-069-1	Eye Irrit. 2, H319	
	1,2,3-benzotriazole	≤2.5%
EINECS: 202-394-1	Acute Tox. 4, H302	
· Additional informat	tion: For the wording of the listed hazard phrases refer to section 1	6.

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

#### · 4.1 Description of first aid measures

- General information:
- Wash contaminated clothing before reuse.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Immediately remove any clothing soiled by the product.

- · After inhalation:
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

- After eye contact:
- Seek immediate medical advice.

Rinse opened eye for several minutes under running water and consult a doctor.

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After swallowing:

Rinse out mouth and then drink plenty of water.

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## Trade name: Alfa P-Scale / Kalklöser P

Drink plenty of water and provide fresh air. Call for a doctor immediately. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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** No further relevant information available.

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Not applicable.
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Nitrogen oxides (NOx)
- Sulphur dioxide (SO2)

Sulphur trioxide (SO3) or SO3-mist

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Suppress gases/fumes/haze with water spray.

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

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

<ul> <li>6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Send for recovery or disposal in suitable receptacles.</li> <li>6.3 Methods and material for containment and cleaning up: Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.</li> <li>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.</li> </ul>	Avoid forr Avoid cor Use only See Secti Wear pro Do not br Do not ge <b>6.2 Envir</b> Inform res Do not all Send for <b>6.3 Metho</b> Use neutr Dispose of Ensure ac <b>6.4 Refer</b> See Secti See Secti	espective authorities in case of seepage into water course or sewage system. llow to enter sewers/ surface or ground water. recovery or disposal in suitable receptacles. <b>nods and material for containment and cleaning up:</b> tralising agent. contaminated material as waste according to item 13. adequate ventilation. <b>rence to other sections</b> tion 7 for information on safe handling. tion 8 for information on personal protection equipment.	
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## **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling Thorough dedusting. When using do not eat, drink or smoke. See Section 8 for information on personal protection equipment. Avoid contact with skin and eyes. Ensure that washing facilities are available at the work place. · Information about fire - and explosion protection: No special measures required. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: • Requirements to be met by storerooms and receptacles: Store only in the original receptacle. · Information about storage in one common storage facility: Not required. • Further information about storage conditions: Store in dry conditions. Protect from frost. Keep container tightly sealed. · Storage class: 8B · 7.3 Specific end use(s) Deliming agent Corrosion inhibitors Professional use only.

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

· Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

#### · 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Use only in well-ventilated areas.

In case of insufficient ventilation, wear suitable respiratory equipment.

- **Respiratory protection:** Filter P2
- Protection of hands:

Acid resistant gloves



Protective gloves

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## Trade name: Alfa P-Scale / Kalklöser P

(Contd. of page 4) The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Material of gloves

Nitrile rubber, NBR

Synthetic rubber gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## 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 protection:

Face protection



Tightly sealed goggles

· Body protection: Acid resistant protective clothing

9.1 Information on basic physica General Information	I and chemical properties
Appearance:	
Form:	Solid material
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.
pH-value at 20 °C:	<1.2
Change in condition Melting point/freezing point: Initial boiling point and boiling	Undetermined. range: Undetermined.
Flash point:	71 °C
Flammability (solid, gas):	Not determined.
Ignition temperature:	485 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.

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#### Trade name: Alfa P-Scale / Kalklöser P

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· Vapour pressure:	Not applicable.
· Density at 20 °C:	1.1 g/cm <sup>3</sup>
Relative density	650-750 kg/m3
Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water at 20 °C:	250 g/l
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
VOC (EC)	0.00 %
Solids content:	100.0 %
<ul> <li>9.2 Other information</li> </ul>	No further relevant information available.

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- **10.2 Chemical stability** Stable at environment temperature.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
- Reacts with alkali (lyes).
- Reacts with halogenated compounds.
- 10.4 Conditions to avoid Do not store together with alkalis (caustic solutions).
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Sulphur trioxide (SO3) or SO3-mist

## **SECTION 11: Toxicological information**

## · 11.1 Information on toxicological effects

· Acute toxicity

Oral	LD50	3,160 mg/kg (rat)	
	LDLo	1,450 mg/kg (rat) (LD50)	
CAS: 7	7-92-9	citric acid	
Oral	LD50	5,040 mg/kg (mouse)	
		3,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rabbit) No mortality	

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#### Trade name: Alfa P-Scale / Kalklöser P

· Primary irritant effect:

· Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Risk of serious damage to eyes.

Causes serious eye damage.

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

• 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 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 CAS: 5329-14-6 sulphamidic acid LC50 70.3 mg/L (Fish) (OECD) 96 h. CAS: 77-92-9 citric acid EC50 >18,000 mg/L (Algae) 96 hours, green algea. Aquatic toxicity: No further relevant information available. • **12.2 Persistence and degradability** No further relevant information available. · 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available. · Ecotoxical effects: · Remark: Harmful to fish · 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. Must not reach sewage water or drainage ditch undiluted or unneutralised. Harmful to aquatic organisms Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pHvalues. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. 12.5 Results of PBT and vPvB assessment • **PBT:** Not applicable. **vPvB:** Not applicable.

12.6 Other adverse effects No further relevant information available.

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## **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.

## European waste catalogue

13 01 05\* non-chlorinated emulsions

The European Waste Catalogue (EWC) waste codes do not refer to product but to origin. The manufacturer is therefore unable to quote a waste code for products which are used in various industries. Any codes shown should be regarded as a recommendation to the user.

16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

16 03 00 off-specification batches and unused products

16 03 05\* organic wastes containing dangerous substances

#### · Uncleaned packaging:

Recommendation:

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

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN-Number · ADR, IMDG, IATA	UN2967	
· 14.2 UN proper shipping name · ADR · IMDG, IATA	2967 SULPHAMIC ACID mixture SULPHAMIC ACID mixture	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
Class Label	8 Corrosive substances. 8	
• 14.4 Packing group • ADR, IMDG, IATA		
· 14.5 Environmental hazards: · Marine pollutant:	No	
• 14.6 Special precautions for user • Danger code (Kemler): • EMS Number: • Segregation groups • Stowage Category	Warning: Corrosive substances. 80 F-A,S-B Acids A	

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#### Trade name: Alfa P-Scale / Kalklöser P

<ul> <li>14.7 Transport in bulk according to An of Marpol and the IBC Code</li> </ul>	nex II Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000
<ul> <li>Transport category</li> </ul>	3
<ul> <li>Tunnel restriction code</li> </ul>	E
·IMDG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1
• • • •	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000
· UN "Model Regulation":	UN 2967 SULPHAMIC ACID MIXTURE, 8, III

## **SECTION 15: Regulatory information**

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

EU regulation (EC) no 1272/2008 (CLP)

EC DIRECTIVE 2008/98/EC (waste)

EU Regulation (EC) no.1907/2006 (REACH)

• 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. LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

Please contact your local Alfa Laval Sales Company for further questions: www.alfalaval.com

### **Relevant phrases**

H302 Harmful if swallowed. H315 Causes skin irritation.

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(Contd. of page 9) H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. · Department issuing SDS: Alfa Laval Corporate Standards & Regulatory Operations Contact: Please contact your local Alfa Laval Sales Company for further questions: Argentina: alfa.consulta@alfalaval.com Australia: australia.info@alfalaval.com Austria: info.mideurope@alfalaval.com Belgium: benelux.info@alfalaval.com Bolivia: alfa.consulta@alfalaval.com Brazil: alfalaval.br@alfalaval.com Bulgaria: bulgaria.info@alfalaval.com Canada: alfacan.info@alfalaval.com Chile: chile.informacion@alfalaval.com China: china.info@alfalaval.com Colombia: info.colombia@alfalaval.com Croatia: hrvatska.info@alfalaval.com Czech Republic: czechrepublic.info@alfalaval.com Denmark: info.nordic.dk@alfalaval.com Egypt: alme.marketing@alfalaval.com Estonia: estonia.info@alfalaval.com Finland: info.fi@alfalaval.com France: environnement@alfalaval.com Germany: info.mideurope@alfalaval.com Greece: greece.info@alfalaval.com Hungary: info.hu@alfalaval.com India: india.info@alfalaval.com Indonesia: alfalindo@alfalaval.com Israel: israel.info@alfalaval.com Italy: alfalaval.italia@alfalaval.com Latvia: latvia.info@alfalaval.com Lithuania: lithuania.info@alfalaval.com Malaysia: malaysia.info@alfalaval.com Mexico: mexico.info@alfalaval.com The Netherlands: benelux.info@alfalaval.com New Zealand: newzealand.info@alfalaval.com Norway: info.no@alfalaval.com Peru: ventas.peru@alfalaval.com Philippines: philippines.info@alfalaval.com Poland: poland.info@alfalaval.com Portugal: portugal.info@alfalaval.com Qatar: alme.marketing@alfalaval.com Romania: romania.info@alfalaval.com Russia: moscow.response@alfalaval.com Singapore: al.singapore@alfalaval.com Slovak Republic: slovakia.info@alfalaval.com Slovenia: slovenija.info@alfalaval.com South Africa: info.sa@alfalaval.com Spain: info.spain@alfalaval.com Sweden: info.se@alfalaval.com Switzerland: info.mideurope@alfalaval.com Taiwan: taiwan.info@alfalaval.com Thailand: thailand.info@alfalaval.com (Contd. on page 11)

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(Contd. of page 10) Turkey: turkey@alfalaval.com Ukraine: ukraine.info@alfalaval.com United Arab Emirates: alme.marketing@alfalaval.com United Kingdom: general.uk@alfalaval.com United States: customerservice.usa@alfalaval.com Venezuela: venezuela.info@alfalaval.com Vietnam: vietnam.info@alfalaval.com 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 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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1: Skin corrosion/irritation – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 \*\* Data compared to the previous version altered. GE