



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

Printing date 15.03.2022

Version number 12 (replaces version 11)

Revision: 15.03.2022

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

- **1.1 Product identifier**
- **Trade name:** Alfa P-Scale / Kalklöser P
- **Article number:** 3284000602
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Deliming agent  
Corrosion inhibitors
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**  
Alfa Laval Technologies AB  
SE-221 00 Lund  
Sweden  
+46 46 36 65 00  
info.se@alfalaval.com  
Manufacturer:  
BWT AG  
Walter Simmer Straße 4  
A - 5310 Mondsee  
AUSTRIA  
Tel.: +43/6232/5011-0  
Fax: +43/6232/4058  
email: office@bwt.at
- **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](http://www.alfalaval.com) or in section 16 "Other Information" in the end of the safety data sheet
- **1.4 Emergency telephone number:**  
For immediate, life-threatening emergencies, call 999. For health advice and information (24h) dial 111 (NHS direct).  
  
In Europe: Call 112 and ask for poison information.

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Corr. 1A      H314 Causes severe skin burns and eye damage.  
Eye Dam. 1      H318 Causes serious eye damage.  
Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms**


GHS05

**Signal word** Danger

**Hazard statements**

H314 Causes severe skin burns and eye damage.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dusts or mists.  
 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.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**
**Results of PBT and vPvB assessment**

**PBT:** The product is not, nor contains, a substance that is, PBT.  
**vPvB:** The product is not, nor contains a substance that is, vPvB.

**Determination of endocrine-disrupting properties**

CAS: 95-14-7 | 1,2,3-benzotriazole

List II

### SECTION 3: Composition/information on ingredients

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

**Dangerous components:**

|                                     |  |         |
|-------------------------------------|--|---------|
| CAS: 5329-14-6<br>EINECS: 226-218-8 | sulphamidic acid<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | 50-100% |
| CAS: 77-92-9<br>EINECS: 201-069-1   | citric acid<br>Eye Irrit. 2, H319  | 25-<50% |
| CAS: 95-14-7<br>EINECS: 202-394-1   | 1,2,3-benzotriazole<br>Acute Tox. 4, H302  | ≤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:**

Wash contaminated clothing before reuse.

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

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Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**· 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.

Call for a doctor immediately.

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.

### SECTION 5: Firefighting measures

**· 5.1 Extinguishing media****· Suitable extinguishing agents:**

CO<sub>2</sub>, 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 (NO<sub>x</sub>)

Sulphur dioxide (SO<sub>2</sub>)

Sulphur trioxide (SO<sub>3</sub>) or SO<sub>3</sub>-mist

During heating or in case of fire poisonous gases are produced.

**· 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.

Mouth respiratory protective device.

### SECTION 6: Accidental release measures

**· 6.1 Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

Avoid contact with spilled material.

Use only in well-ventilated areas.

See Section 8 for information on personal protection equipment.

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Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Do not breathe vapour.

Do not get in eyes, on skin, or on clothing.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

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.

· **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.

· **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**

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

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:** Keep respiratory protective device available.

· **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

· **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.

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- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as 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.  
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



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Hand protection**  
Acid resistant gloves



Protective gloves

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.

- **Eye/face protection**



Face protection



Tightly sealed goggles

- **Body protection:** Acid resistant protective clothing
- **Environmental exposure controls**  
Do not allow to enter sewers/ surface or ground water.  
Send for recovery or disposal in suitable receptacles.

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### SECTION 9: Physical and chemical properties

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

##### · General Information

|  |                              |
|--|------------------------------|
| · Colour:  | White                        |
| · Odour:   | Odourless                    |
| · Odour threshold:   | Not determined.              |
| · Melting point/freezing point:                            | Undetermined.                |
| · Boiling point or initial boiling point and boiling range | Undetermined.                |
| · Flammability   | Not determined.              |
| · Lower and upper explosion limit                          |                              |
| · Lower:   | Not determined.              |
| · Upper:   | Not determined.              |
| · Flash point:   | 71 °C                        |
| · Auto-ignition temperature:                               | Product is not selfigniting. |
| · Decomposition temperature:                               | Not determined.              |
| · pH at 20 °C  | <1.2                         |
| · Viscosity:   |                              |
| · Kinematic viscosity                                      | Not applicable.              |
| · Dynamic:   | Not applicable.              |
| · Solubility   |                              |
| · water at 20 °C:  | 250 g/l                      |
| · Partition coefficient n-octanol/water (log value)        | Not determined.              |
| · Vapour pressure:   | Not applicable.              |
| · Density and/or relative density                          |                              |
| · Density at 20 °C:  | 1.1 g/cm <sup>3</sup>        |
| · Relative density   | 650-750 kg/m <sup>3</sup>    |
| · Vapour density   | Not applicable.              |
| · Particle characteristics                                 | See item 3.                  |

#### · 9.2 Other information

|                         |   |
|-------------------------|---|
| · Appearance:           |   |
| · Form:                 | Solid material                                |
| · Ignition temperature: | 485 °C  |
| · Explosive properties: | Product does not present an explosion hazard. |
| · Solvent content:      |   |
| · VOC (EC)              | 0.00 %  |
| · Solids content:       | 100.0 %                                       |
| · Change in condition   |   |
| · Drip point:           |   |
| · Oxidising properties  | Not applicable.                               |
| · Evaporation rate      | Not applicable.                               |

#### · Information with regard to physical hazard classes

|                        |      |
|------------------------|------|
| · Explosives           | Void |
| · Flammable gases      | Void |
| · Aerosols             | Void |
| · Oxidising gases      | Void |
| · Gases under pressure | Void |
| · Flammable liquids    | Void |

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|  |      |
|--|------|
| · <b>Flammable solids</b>  | Void |
| · <b>Self-reactive substances and mixtures</b>                                     | Void |
| · <b>Pyrophoric liquids</b>  | Void |
| · <b>Pyrophoric solids</b>   | Void |
| · <b>Self-heating substances and mixtures</b>                                      | Void |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void |
| · <b>Oxidising liquids</b>   | Void |
| · <b>Oxidising solids</b>  | Void |
| · <b>Organic peroxides</b>   | Void |
| · <b>Corrosive to metals</b>   | Void |
| · <b>Desensitised explosives</b>   | Void |

#### 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:** Refer to section 10.3 above.
- **10.6 Hazardous decomposition products:** Sulphur trioxide (SO<sub>3</sub>) or SO<sub>3</sub>-mist

#### SECTION 11: Toxicological information

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

- **Acute toxicity**

**CAS: 5329-14-6 sulphamic acid**

|      |      |                          |
|------|------|--------------------------|
| Oral | LDLo | 1,450 mg/kg (Rat) (LD50) |
|------|------|--------------------------|

- **LD/LC50 values relevant for classification:**

**CAS: 5329-14-6 sulphamic acid**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 3,160 mg/kg (Rat) |
|------|------|-------------------|

**CAS: 77-92-9 citric acid**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 5,040 mg/kg (Rat) |
|------|------|-------------------|

|        |      |                       |
|--------|------|-----------------------|
| Dermal | LD50 | >2,000 mg/kg (Rabbit) |
|--------|------|-----------------------|

- **Skin corrosion/irritation**

Causes severe skin burns and eye damage.

- **Serious eye damage/irritation** Risk of serious damage to eyes.

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

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**  
Endocrine disrupting properties from <https://edlists.org>

CAS: 95-14-7 | 1,2,3-benzotriazole

List II

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**CAS: 5329-14-6 sulphamidic acid**

|             |                                  |
|-------------|----------------------------------|
| LC50 (48 h) | 70.3 mg/L (Fish) (OECD)<br>96 h. |
|-------------|----------------------------------|

**CAS: 77-92-9 citric acid**

|             |                               |
|-------------|-------------------------------|
| LC50        | 1,535 mg/L / (24 h) (Daphnia) |
| LC50 (48 h) | 440 mg/L (Fish)               |

- **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.
- **12.5 Results of PBT and vPvB assessment**

- **PBT:** The product is not, nor contains, a substance that is, PBT.

- **vPvB:** The product is not, nor contains a substance that is, vPvB.

- **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

- **12.7 Other adverse 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 pH-values. 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.

### 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.

- **yes European waste catalogue**

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.

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|           |  |
|-----------|--|
| 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 hazardous 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.

### SECTION 14: Transport information

- **14.1 UN number or ID number**  
· **ADR, IMDG, IATA** UN2967
- **14.2 UN proper shipping name**  
· **ADR** 2967 SULPHAMIC ACID mixture  
· **IMDG, IATA** SULPHAMIC ACID
- **14.3 Transport hazard class(es)**  
· **ADR, IMDG, IATA**  
  
· **Class** 8 Corrosive substances.  
· **Label** 8
- **14.4 Packing group**  
· **ADR, IMDG, IATA** III
- **14.5 Environmental hazards:**  
· **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Corrosive substances.  
· **Hazard identification number (Kemler code):** 80  
· **EMS Number:** F-A,S-B  
· **Segregation groups** Acids  
· **Stowage Category** A  
· **Segregation Code** SG36 Stow "separated from" SGG18-alkalis.  
SG49 Stow "separated from" SGG6-cyanides
- **14.7 Maritime transport in bulk according to IMO instruments** 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 g
- **Transport category** 3

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|                                   |  |
|-----------------------------------|--|
| · <b>Tunnel restriction code</b>  | E  |
| · <b>IMDG</b>                     |  |
| · <b>Limited quantities (LQ)</b>  | 5 kg   |
| · <b>Excepted quantities (EQ)</b> | Code: E1<br>Maximum net quantity per inner packaging: 30 g<br>Maximum net quantity per outer packaging: 1000 g |
| · <b>UN "Model Regulation":</b>   | 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)

· **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.

· **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

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this document and the product to which the information refers.  
Please contact your local Alfa Laval Sales Company for further questions.  
[www.alfalaval.com](http://www.alfalaval.com)

**Relevant phrases**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
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.

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

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

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· **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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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.**

GB