

Trade name: **TR-Salt**

Revised at: 16.05.2007

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1. Identification of the substance/preparation and of the company/undertaking

Trade name: **TR-Salt**

Recommended use: Special regeneration salt for instrument cleaning automats for water softening.

Effect of the preparation: Regeneration agent for ion exchangers in water softening plants.

Manufacturer: ALPRO MEDICAL GMBH
Mooswiesenstr. 9
D-78112 St. Georgen (Germany)
Telephone: +49 7725 9392-0
Telefax: +49 7725 9392-91
Email: alpro@alpro-medical.de
Internet: www.alpro-medical.com

Technical contact point: +49 7725 9392-0

Emergency phone: +49 7725 9392-0 (business hours)
+49 761 19240 Poisoning-information-central, Freiburg (24h emergency call)

2. Composition/information on ingredients

Chemical characterization: Pure seething salt (sodium chloride); CAS-no.: 7647-14-5

Does not contain hazardous ingredients above concentration limits fixed in preparation guideline 1999/45/EC.

3. Hazards identification

This product does not require labelling in terms of preparation guideline 1999/45/EC.

4. First-aid measures

General information: Note precautions for self-protection.

On inhalation: No special measures necessary.

On contact with skin: Wash off skin with soap and water.

On contact with the eyes: Rinse the eyes with water with the eyelids open for a sufficient length of time.

If swallowed: Rinse out mouth and then drink plenty of water. Consult a physician if problems persist.

Information for the doctor: First aid, decontamination, symptomatic treatment.

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5. Fire-fighting measures

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| Suitable extinguishing media: | Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. |
| Extinguishing media which must not be used for safety reasons: | None known |
| Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: | None known |
| Special protective equipment for firefighting: | Not necessary |
| Additional information: | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. |

6. Accidental release measures

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| Personal precautions: | Avoid generation of dust. |
| Environmental precautions: | Do not allow larger quantities to enter drains or surface water. |
| Methods for cleaning up/taking up: | Take up mechanically. Wash up residues with plenty of water. |

7. Handling and storage

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|--------------------------------------------------|-----------------------------------------------------------|
| Hints for safe handling: | Not necessary |
| Hints for protection against fire and explosion: | Product is not flammable. |
| Further information: | Not necessary |
| Requirements for storage rooms and vessels: | Keep tightly closed and store only in original container. |
| Hints on storage assembly: | Not necessary |
| Further information on storage conditions: | Keep dry. |
| Storage class: | LGK 11/13 |

8. Exposure limitation and personal protective equipment

Constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

Does not contain substances above concentration limits fixing an occupational limit.

General health and safety measures:

- Do not eat, drink, smoke while working.
- Wash hands before breaks and on finishing work.
- Preventive skin protection using barrier ointment.
- Keep away of foods and drinks.
- Avoid contact with eyes, skin and clothing.
- Avoid inhalation of aerosols and vapours.

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Personal protection equipment:

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| Respiratory protection: | Not necessary. |
| Hand protection: | Not necessary. |
| Eye protection: | Goggles are recommended. |
| Protective clothing: | Not necessary. |

9. Physical and chemical properties

| | | |
|-----------------------------------|----------------------------|-------------------|
| Form: | solid | |
| Colour: | white | |
| Odour: | odourless | |
| pH-value (50 g/l): | 6 - 9 | (20°C) |
| Boiling point/Boiling range: | 1461°C | |
| Melting point/Melting range: | 801°C | |
| Flash point (DIN, TRbF): | non-applicable | |
| Flammability (solid, gases): | not flammable | |
| Explosive properties: | none | |
| Lower explosion limit: | none | |
| Upper explosion limit: | none | |
| Ignition temperature: | not necessary | |
| Oxidizing properties: | none | |
| Vapour pressure: | 0 mbar | at 20°C |
| Density: | ca. 2,16 g/cm ³ | at 20°C |
| Bulk density: | ca. 1200 kg/m ³ | at 20°C |
| Solubility in water: | 359 g/l | at 20°C |
| in ethanol: | soluble | |
| in hexan: | not soluble | |
| Partition coefficient: | not necessary | (n-octanol/water) |
| Viscosity (sort): | not necessary | at ...°C |
| Electrical conductivity: | not necessary | |
| Refractive index n _D : | not necessary | |
| Optical rotation α _D : | not necessary | |

10. Stability and reactivity

| | |
|-----------------------------------|--------------------------------------------------------------------------|
| Conditions to avoid: | No hazardous decomposition products if stored and handled as prescribed. |
| Materials to avoid: | No hazardous reactions with other substances known. |
| Hazardous decomposition products: | No decomposition if used as prescribed. |

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11. Toxicological information

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| Acute toxicity: | Oral LD50 3000mg/kg (rat). |
| Primary irritant effect on the skin: | Moderately irritant. |
| Primary irritant effect on the eye: | Slightly irritant. |
| Mutagenic potential: | No mutagenic potential known. |
| Sensitization: | No sensitizing effects known. |

The product was classified on the basis of the calculation procedure of the preparation directive 1999/45/EC.

Based on manufacturer data of the main components the acute toxicity, the skin irritation, the mucous membrane irritation and the mutagenic potential of the preparation were evaluated. However, some data are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected than those which are already mentioned on the label.

12. Ecological information

| | |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity: | Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. |
| Persistence and degradation: | Inorganic product which is not eliminable from water through biological cleaning processes. |
| Other adverse effects: | No other adverse effects known. |
| Further information: | Do not allow product to reach ground water or waters and do not empty undiluted product into sewers. |

13. Disposal considerations

Disposal of the product:

In the EC member states there are no standardized regulations for the disposal of chemicals. In Germany the law of the cycle of economy and waste (KrW/AbfG) prescribes the principle of utilization and therefore a distinction must be made between "waste for utilization" and "waste for removal". Furthermore special cases – particularly in case of delivery – are also regulated by the federal states. Please contact the corresponding office (authority or waste disposal company) who will inform you about the utilization or removal.

Waste code no.*: 06 03 14

Disposal of uncleaned as well as completely emptied packings:

Disposal according to official regulations. Contaminated packings are to be treated like the substance.

Waste code no.*: 15 01 02

Further information:

If there is no official regulation, non-contaminated packings can be treated like domestic waste or can be recycled.

*Waste code no.: Waste incurred is classified following the code of the European waste register according to kind of waste and branch.

EC-Safety data sheet according to 91/155/EEC



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14. Transport information

No hazardous material as defined by the transport regulations (ADR/RID, IMDG-Code, ICAO-TI/IATA-DGR)

15. Regulatory information

Labelling

Code letter: -
Hazard designation: -
contains: -
R-phrases: -
S-phrases: -

Special labelling of certain preparations (preparation directive 1999/45/EC annex V):
not necessary

National regulations (Germany)

| | |
|----------------------------------|-------------------------------------------------------|
| Restrictions of occupation: | None |
| Störfallverordnung: | - |
| Classification according to VbF: | Not subject to the VbF |
| Technische Anleitung Luft: | - |
| Water hazard class: | WGK 1 (slightly water hazardous); self-classification |

16. Other information

Further information:

This information is based on our present knowledge and describes the safety measures which are to be taken for this product. However, this shall not constitute a guarantee for any product features.

Marking of changes:

There are no changes so far.