

Safety Data Sheet

according to regulation (EC) 1907/2006 (REACH)



Trade name: **TR-Clear**

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Revised at: 27.07.2010

Print date: 27.07.2010

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

Trade name: **TR-Clear**

Recommended use: For the final rinsing in the automatic machine decontamination and cleaning of dental instruments in clinics and practices.

Effect of the preparation: Protective and preservative agent

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. Hazards identification

R36/38 Irritating to eyes and skin.

3. Composition/information on ingredients

Chemical characterization: Mixture of substances listed below with nonhazardous additions in aqueous solution.

| <i>Hazardous ingredients</i> | <i>CAS-No.</i> | <i>Weight-%</i> | <i>Code letter</i> | <i>R-phrases*</i> |
|-----------------------------------|----------------|-----------------|--------------------|-------------------|
| Phosphoric acid | 7664-38-2 | 15-30% | C | 34 |
| Phosphoric acid, monomethyl ester | 812-00-0 | 1-5% | C | 34 |

*Full text of R-phrases: see under section 16

4. First aid measures

General information: Note precautions for self-protection.

On inhalation: Move affected person into fresh air and keep still and warm. In case of irritation of the airways, seek medical advice.

On contact with skin: Wash off immediately with soap and water. In case of skin reactions, seek medical advice.

On contact with the eyes: Rinse the eyes with water with the eyelids open for a sufficient length of time, then seek ophthalmological advice immediately.

If swallowed: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Seek medical advice.

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

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5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media: | Water, foam, dry fire-extinguishing media, carbon dioxide |
| 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: | Cool endangered containers with water spray jet and if possible remove off fire area. |

6. Accidental release measures

| | |
|------------------------------------|---|
| Personal precautions: | Use personal protective clothing. High risk of slipping due to leakage/spillage of product. |
| Environmental precautions: | Contain spillage with absorbing material, e.g. with sand. |
| Methods for cleaning up/taking up: | Treat recovered material as prescribed in: Disposal considerations. |

7. Handling and storage

| | |
|--|---|
| Hints for safe handling: | Avoid contact with skin and eyes. |
| 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: | Not necessary |
| Storage class: | LGK 10 |

8. Exposure controls / Personal protection

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

Maximum occupational exposure concentration; see TRGS 900 (German regulation)

| | | |
|---|--------------------|--|
| Phosphoric acid | CAS-No.: 7664-38-2 | Air limit value: 2 mg/m ³ respirable fraction |
| Overflow factors for short-term values: | | Peak limitation-category 2(I) |

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 if handled cautiously. |
| Hand protection: | E.g. natural rubber- or PVC-gloves. |
| Eye protection: | Tightly sealed goggles. |
| Protective clothing: | Not necessary if handled cautiously. |

9. Physical and chemical properties

| | | |
|--|-----------------------------|-------------------|
| Form: | liquid | |
| Colour: | slightly yellowish, clear | |
| Odour: | of tensid | |
| pH-value (undiluted): | < 1,0 | (20°C) |
| Boiling point/Boiling range: | not relevant to safety | |
| Melting point/Melting range: | not relevant to safety | |
| Flash point (DIN, TRbF): | >55°C | |
| Flammability (solid, gases): | not determinable | |
| Explosive properties: | none | |
| Lower explosion limit: | none | |
| Upper explosion limit: | none | |
| Ignition temperature: | not necessary | |
| Oxidizing properties: | none | |
| Vapour pressure: | not necessary | at ...°C |
| Density: | 1,14-1,15 g/cm ³ | at 20°C |
| Bulk density: | not determinable | at ...°C |
| Solubility in water: | soluble | |
| in ethanol: | soluble | |
| in hexan: | not soluble | |
| Partition coefficient: | not necessary | (n-octanol/water) |
| Viscosity (sort): | not necessary | at ...°C |
| Electrical conductivity (10 g/l H ₂ O): | 5,00-6,00 mS/cm | (20°C) |
| 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

| | |
|--------------------------------------|-------------------------------|
| Acute toxicity: | No acute toxicity known. |
| Primary irritant effect on the skin: | Irritating to skin. |
| Primary irritant effect on the eye: | Irritating to eyes. |
| 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: | Ingredients are biodegradable. |
| 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.*: 16 10 03

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 10

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.

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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: | Xi | |
| Hazard designation: | Irritant | |
| contains: | - | |
| R-phrases: | R36/38 | Irritating to eyes and skin. |
| S-phrases: | S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | S37/39 | Wear suitable gloves and eye/face protection. |

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

National regulations (Germany)

| | |
|----------------------------------|---|
| Restrictions of occupation: | Juvenile in relation to § 22 JArbSchG |
| 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

Full text of R-phrases appearing in section 3: (This is not the classification of the product TR-Clear!)

R34 Causes burns.

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:

A backslash in the left hand margin indicates an amendment from the previous version.