

Material Safety Data Sheet
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 12.11.2002

Trade name: ALTO Active Acid

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- After skin contact
Instantly wash with water and soap and rinse thoroughly.
- After eye contact
Rinse opened eye for several minutes under running water. Then consult doctor.
- After swallowing
Drink copious amounts of water and provide fresh air. Instantly call for doctor.

5 Fire fighting measures

- Suitable extinguishing agents
CO₂, extinguishing powder or water spray jet with softener additives or with alcohol-resistant foam.
- Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions: see point 8.
Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Dilute with much water.
- Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- Handling
- Information for safe handling: No special measures required.
- Information about protection against explosions and fires:
No special measures required.

- Storage
- Requirements to be met by storerooms and containers:
Keep in original containers.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
Keep container tightly sealed. Ensure good ventilation.
- Storage class
- Class according to regulation on inflammable liquids: Void

8 Exposure controls and personal protection

Components with limit values that require monitoring at the workplace:
Hydrogen chloride (15-30%)

OES: Short-term value: 8 mg/m³, 5 ppm
Long-term value: 2 mg/m³, 1 ppm
gas and aerosol mists; ILV

phosphoric acid (15-30%)

OES: Short-term value: 2 mg/m³
Long-term value: 1 mg/m³
IOELV, Sk

- Personal protective equipment

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- General protective and hygienic measures
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- Breathing equipment:
Not necessary with good ventilation or in fresh air
- Protection of hands:
Protective gloves.
The glove material has to be impermeable and resistant to the product/
the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be
given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration
times, rates of diffusion and the degradation
- Material of 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 trough time has to be found out by the manufacturer of
the protective gloves and has to be observed.
- Eye protection: Tightly sealed safety glasses.

9 Physical and chemical properties:

- General Information
- Form: Fluid
- Colour: Red
- Odour: Characteristic
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- Value/Range Unit Method
- Change in condition
- Melting point/Melting range: Not determined
- Boiling point/Boiling range: 100 ° C
- Flash point: Not applicable
- Self-inflammability: Product is not selfigniting.
- Danger of explosion: Product is not explosive.
- Vapour pressure: at 20 ° C 23.0 hPa
- Density at 20 ° C 1.146 g/cm³
- Solubility in / Miscibility with
- Water: Fully miscible
- pH-value: (10 g/l) at 20 ° C 1.5
- Solvent content:
- Organic solvents: 3.0 %
- Water: 52.0 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

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- Dangerous reactions: Neutralises exothermically with alkalis.
 - Dangerous products of decomposition:
No dangerous decomposition products known
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11 Toxicological information

- Acute toxicity:
 - Primary irritant effect:
 - on the skin:
Strong caustic effect on skin and mucous membranes.
 - on the eye: Causes burns.
 - Sensitisation: No sensitising effect known.
 - Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.
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12 Ecological information:

- General notes:
The product is free from halogen organic compounds (AOX)
The product and its solutions must not be discharged unneutralised into the sewage system
The tensides are biologically degradable according to the German Detergents Legislation(Organisation for Economic Cooperation and Development)
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
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13 Disposal considerations

- Product:
 - Recommendation
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 - Uncleaned packagings:
 - Recommendation:
Disposal must be made according to official regulations.
 - Recommended cleaning agent: Water, if necessary with cleaning agent.
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14 Transport information

- Land transport ADR/RID (cross-border)
 - ADR/RID Class: 8 (C1) Corrosive substances.
 - Kemler Number: 80
 - UN-Number: 3264
 - Packaging group: III
 - Label: 8
 - Designation of goods: 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,
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N.O.S. (HYDROCHLORIC ACID)

- Maritime transport IMDG:
- IMDG Class: 8
- UN Number: 3264
- Label: 8
- Packaging group: III
- EMS Number: 8-15
- Marine pollutant: n.a.
No
- Correct technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(HYDROCHLORIC ACID)

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 8
- UN/ID Number: 3264
- Label: 8
- Packaging group: III
- Correct technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(HYDROCHLORIC ACID)

15 Regulatory information

- Designation according to EC guidelines:
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- Code letter and hazard designation of product: C Corrosive
- Hazard-determining components of labelling:
hydrogen chloride
phosphoric acid
- Risk phrases:
 - 34 Causes burns.
 - 37 Irritating to respiratory system.
- Safety phrases:
 - 20 When using do not eat or drink.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - 60 This material and its container must be disposed of as hazardous waste.
- National regulations
- Classification according to VbF: Void
- Water hazard class:
Water hazard class 1 (Self-assessment): slightly hazardous for water.

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16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases
 - 34 Causes burns.
 - 36 Irritating to eyes.
 - 37 Irritating to respiratory system.

 - Department issuing data specification sheet:
Department cleaning and care agents
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