



Material Safety Data Sheet  
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

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Trade name: ALTO Acido

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- After inhalation  
In case of unconsciousness bring patient into stable side position for transport.
  - 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  
CO<sub>2</sub>, 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 neutralising 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:  
No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:  
Keep container tightly sealed.
  - 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:  
phosphoric acid (>30%)

OES: Short-term value: 2 mg/m<sup>3</sup>  
Long-term value: 1 mg/m<sup>3</sup>  
IOELV, Sk

111-76-2 2-butoxyethanol (1-5%)

OES: Short-term value: 50 ppm  
Long-term value: 25 ppm  
Sk, , IOELV

- 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 required.
- 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: Light orange
- Odour: Product specific
- 
- 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 1.198 g/cm<sup>3</sup>
- Solubility in / Miscibility with
- Water: Fully miscible
- pH-value: (10 g/l) at 20 ° C 2.0

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**10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
  - Dangerous reactions: Neutralises exothermically with alkalis.
  - Dangerous products of decomposition:  
No dangerous decomposition products known
- 

**11 Toxicological information**

- Acute toxicity:
  - Primary irritant effect:
    - on the skin:  
Strong caustic effect on skin and mucous membranes.  
cause irritation, burns possible with prolonged contact
    - 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  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.
- 

**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 3 (German Regulation) (Self-assessment): extremely Hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Must not reach sewage water or drainage ditch undiluted or unneutralized.
- 

**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)

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- 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, N.O.S. (PHOSPHORIC ACID, LIQUID)
  
- 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. (PHOSPHORIC ACID, LIQUID)
  
- 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. (PHOSPHORIC ACID, LIQUID)

**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: phosphoric acid
- Risk phrases: 34 Causes burns.
- 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

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- Water hazard class:  
Water danger class 3 (Self-assessment): extremely 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
    - 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
    - 21/22 Harmful in contact with skin and if swallowed.
    - 34 Causes burns.
    - 36/38 Irritating to eyes and skin.
    - 38 Irritating to skin.
    - 50 Very toxic to aquatic organisms.
  - Department issuing data specification sheet:  
Department cleaning and care agents
-