

Material Safety Data Sheet
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

Trade name: ALTO DES 3000

4 First aid measures

- 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. If symptoms persist, consult doctor.
 - After swallowing In case of persistent symptoms consult 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
 - Measures for environmental protection: -
 - Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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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:
67-63-0 propan-2-ol (1-5%)
OES: Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

- Personal protective equipment
 - 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/
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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: transparent

- Odour: Product specific

	Value/Range	Unit	Method
- Change in condition			
- Melting point/Melting range:	Not determined		
- Boiling point/Boiling range:	100	° C	
- Flash point:	Not applicable		
- Ignition temperature:	200.0	° C	
- 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	1.036	g/cm ³
- Solubility in / Miscibility with			
- Water:	Fully miscible		
- pH-value:	(10 g/l) at 20 ° C	9.5	

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Dangerous reactions No dangerous reactions known

- Dangerous products of decomposition:

No dangerous decomposition products known

11 Toxicological information

- Acute toxicity:

- Primary irritant effect:

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- on the skin: Irritant to skin and mucous membranes.
 - on the eye: cause irritation
 - Sensitization: No sensitizing 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:
Irritant
-

12 Ecological information

- General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
The tensides are biologically degraded according to the German Detergents Legislation (Organisation for Economic Cooperation and Development)
The product is free from halogen organic compounds (AOX)
Diluted solutions may be disposed of in sewage plants
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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.
-

14 Transport information

- Land transport ADR/RID (cross-border)
 - ADR/RID Class: -
 - Maritime transport IMDG:
 - Marine pollutant: No
-

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: Xi Irritant
- Risk phrases: 36/38 Irritating to eyes and skin.
- Safety phrases:
2 Keep out of the reach of children.
25 Avoid contact with eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37 Wear suitable gloves.
46 If swallowed, seek medical advice immediately and show this container or label.
56 Dispose of this material and its container to hazardous or special waste collection point.

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- National regulations
- Classification according to VbF: Void
- Technical instructions (air):
Class Share in %
III 1-5
- Water hazard class:
Water hazard class 2 (Self-assessment): hazardous for water.

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
 - 22 Harmful if swallowed.
 - 34 Causes burns.
 - 36 Irritating to eyes.
 - 36/38 Irritating to eyes and skin.
 - 67 Vapours may cause drowsiness and dizziness.
 - Department issuing data specification sheet:
Department cleaning and care agents
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