

Material Safety Data Sheet
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

1 Identification of substance

- Product details:
- Trade name: ALTO Alkafoam
- Manufacturer/Supplier:
ALTO Deutschland GmbH
Guido-Oberdorfer-Straße 2-8 Telefon: 07306/72-0
D - 89287 Bellenberg Telefax: 07306/72-316
- Informing department: Department cleaning and care agents
- Emergency information:
National Poisons
Information Service (L)
Medical Toxicology Unit
Avonley Road
Tel:0171/635 91 91
Fax:0171/771 53 09

2 Composition/Data on components

- Chemical characterization
- Description:
Mixture of the substances listed below with harmless additions.

Dangerous components:
1310-73-2 sodium hydroxide 1-5 %
 C; R 35
 EINECS: 215-185-5

1310-58-3 potassium hydroxide 1-5 %
 C; R 22-35
 EINECS: 215-181-3
- Additional information
For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- Hazard designation: C Corrosive
- Information pertaining to particular dangers for man and environment
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 35 Causes severe burns.
- Classification system
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- General information
Instantly remove any clothing soiled by the product.
 - After inhalation
In case of unconsciousness bring patient into stable side position for
(Contd. on page 2)
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(Contd. of page 1)

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
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:
No special requirements.
- 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:

1310-73-2 sodium hydroxide (1-5%)

OES: Short-term value: 2 mg/m³

1310-58-3 potassium hydroxide (1-5%)

OES: Short-term value: 2 mg/m³

- 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.

(Contd. on page 3)

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(Contd. of page 2)

- 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: transparent
- Odour: Product specific
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- 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 1.112 g/cm³
- Solubility in / Miscibility with
- Water: Fully miscible
- pH-value: (10 g/l) at 20 ° C 12

10 Stability and reactivity

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

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11 Toxicological information

- Acute toxicity:
LD/LC50 values that are relevant for classification:
1310-73-2 sodium hydroxide
Oral: LD50: 2000 mg/kg (rat)

1310-58-3 potassium hydroxide
Oral: LD50: 365 mg/kg (rat)
 - Primary irritant effect:
 - on the skin: Strong caustic effect on skin and mucous membranes.
 - on the eye: Strong caustic effect.
 - 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:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
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12 Ecological information

- General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
The tensides are biologically degradable according to the German Detergents Legislation(Organisation for Economic Cooperation and Development)
The product is free from halogen organic compounds (AOX), trisodium hydrogen nitrilo-triacetate and edetic acid
Do not allow undiluted product or large quantities of it ground water and water bodies.
Diluted solutions may be disposed of in sewage plants.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.
In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
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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 (C9) Corrosive substances.
 - Kemler Number: 80
 - UN-Number: 1760
 - Packaging group: II
 - Label: 8
 - Designation of goods: 1760 CORROSIVE LIQUID, N.O.S. (SODIUMHYDROXIDE)
(Contd. on page 5)
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(Contd. of page 4)

- Maritime transport IMDG:
- IMDG Class: 8
- UN Number: 1760
- Label 8
- Packaging group: II
- EMS Number: 8-15
- Marine pollutant: n.a.
No
- Correct technical name: CORROSIVE LIQUID, N.O.S. (SODIUMHYDROXIDE)

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 8
- UN/ID Number: 1760
- Label 8
- Correct technical name: CORROSIVE LIQUID, N.O.S. (SODIUMHYDROXIDE)

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:
sodium hydroxide
potassium hydroxide
- Risk phrases: 35 Causes severe 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
- Water hazard class:
Water hazard class 1 (Self-assessment): slightly 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.
35 Causes severe burns.
36/38 Irritating to eyes and skin.
38 Irritating to skin.
41 Risk of serious damage to eyes.
- Department issuing data specification sheet:
Department cleaning and care agents