

Material Safety Data Sheet
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

Trade name: ALTO AquaClean

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- After swallowing
Drink copious amounts of water and provide fresh air. Instantly call for doctor.
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5 Fire fighting measures

- Suitable extinguishing agents
Water haze
 - For safety reasons unsuitable extinguishing agents
Extinguishing foam.
Carbon dioxide
 - Protective equipment:
Wear full protective suit. Wear self-contained breathing apparatus.
 - Additional information: Cool endangered containers with water spray jet.
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6 Accidental release measures

- Person-related safety precautions:
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.
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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:
Suitable material for containers and pipes: High-grade steel.
Suitable material for containers and conduit: glass.
 - Information about storage in one common storage facility:
Do not store together with alkalis (caustic solutions).
Store away from reducing agents. Store away from flammable substances.
 - Further information about storage conditions:
Store in cool, dry conditions in well sealed containers.
Store container in a well ventilated position.
Protect from the effects of light. Protect from contamination.
Protect from heat and direct sunlight.
Store in a cool place. Heat will increase pressure and may lead to the container exploding.
 - Class according to regulation on inflammable liquids: Void
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8 Exposure controls and personal protection

Components with limit values that require monitoring at the workplace:
7722-84-1 hydrogen peroxide solution (>30%)
OES: Short-term value: 2.8 mg/m³, 2 ppm
Long-term value: 1.4 mg/m³, 1 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.

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- 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 through 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: Colourless
- Odour: Odourless
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- Change in condition
- Melting point/Melting range: -33 ° C
- Boiling point/Boiling range: 100 ° C
- Flash point: Not applicable
- Ignition temperature:
- Decomposition temperature: 113 ° C
- Self-inflammability: Product is not selfigniting.
- Vapour pressure: at 20 ° C 23.0 hPa
- Density at 20 ° C 1.113 g/cm³
- Solubility in / Miscibility with
- Water: Fully miscible
- pH-value: (10 g/l) at 20 ° C 2-4

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Dangerous reactions: Acts as an oxidizing agent on organic materials such as wood, paper and fats
- Dangerous products of decomposition:
No dangerous decomposition products known

11 Toxicological information

- Acute toxicity:

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- Primary irritant effect:
 - on the skin:
Strong caustic effect on skin and mucous membranes.
 - on the eye: Strong caustic effect.
 - 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 esophagus and stomach.
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12 Ecological information

- General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Do not allow undiluted product or large quantities of it ground water and water bodies.
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.
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14 Transport information

- Land transport ADR/RID (cross-border)
 - ADR/RID Class: 5.1 (OC1)
 - Kemler Number: 58
 - UN-Number: 2014
 - Packaging group: II
 - Label: 5.1+8
 - Designation of goods: 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION
 - Maritime transport IMDG:
 - IMDG Class: 5.1
 - UN Number: 2014
 - Label: 5.1+8
 - Packaging group: II
 - EMS Number: 5.1-02
 - Marine pollutant: No
 - Correct technical name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION
 - Air transport ICAO-TI and IATA-DGR:
 - ICAO/IATA Class: 5.1
 - UN/ID Number: 2014
 - Label: 5.1+8
 - Correct technical name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION
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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
O Oxidising
- Hazard-determining components of labelling: hydrogen peroxide solution
- Risk phrases:
8 Contact with combustible material may cause fire.
34 Causes burns.
- Safety phrases:
1/2 Keep locked up and out of the reach of children.
3 Keep in a cool place.
17 Keep away from combustible material.
20 When using do not eat or drink.
25 Avoid contact with eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 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 34 Causes burns.
 - Department issuing data specification sheet:
Department cleaning and care agents
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