

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 Bacteria-Stop
- 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:

26172-55-4 5-chloro-2-methyl-2H-isothiazol-3-one 1-5 %
 T, N; R 23/24/25-34-43-50/53
 EINECS: 247-500-7
- 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 34 Causes burns.
R 43 May cause sensitisation by skin contact.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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
Supply fresh air and call for doctor for safety reasons.
In case of unconsciousness bring patient into stable side position for transport.

(Contd. on page 2)

Material Safety Data Sheet
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

Trade name: ALTO Bacteria-Stop

(Contd. of page 1)

- 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:
Put on breathing apparatus.
Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- Person-related safety precautions: see point 8.
Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection:
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.
- 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:
Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires:
Breathing apparatus should be fitted with filters for organic vapours and aerosol filters.
- Storage
- Requirements to be met by storerooms and containers:
Store dry at room temperature. No steel container
- 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

- 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/
-
- (Contd. on page 3)

Material Safety Data Sheet
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

Trade name: ALTO Bacteria-Stop

(Contd. of page 2)

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: Colourless

- Odour: Odourless

	Value/Range	Unit	Method
- Change in condition			
- Melting point/Melting range:	0	° C	
- 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	1.037	g/cm ³
- Solubility in / Miscibility with			
- Water:	Fully miscible		
- pH-value:	(10 g/l) at 20 ° C	7	
- Solvent content:			
- Organic solvents:		0.0	%
- Water:		94.4	%
- Solids content:		2.2	%

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:

(Contd. on page 4)

Material Safety Data Sheet
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

Trade name: ALTO Bacteria-Stop

(Contd. of page 3)

- on the skin:
Strong caustic effect on skin and mucous membranes.
cause irritation, burns possible with prolonged contact
- on the eye: No irritant effect.
- Sensitization: Sensitization possible by skin contact.
- 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 esophagus and stomach.

12 Ecological information

- General notes:
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into soil.
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.
The product has fungicidal properties and must therefore be used only for this particular application

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: 8 (C9) Corrosive substances.
- Kemler Number: 80
- UN-Number: 1760
- Packaging group: II
- Label: 8
- Designation of goods: 1760 CORROSIVE LIQUID, N.O.S. (5-chloro-2-methyl-2H-isothiazol-3-one)
- Maritime transport IMDG:
- IMDG Class: 8
- UN Number: 1760
- Label: 8
- Packaging group: II
- EMS Number: 8-15
- Marine pollutant: n.a.
No

(Contd. on page 5)

Material Safety Data Sheet
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

Trade name: ALTO Bacteria-Stop

(Contd. of page 4)

- Correct technical name: CORROSIVE LIQUID, N.O.S. (5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one)
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 8
- UN/ID Number: 1760
- Label: 8
- Packaging group: II
- Correct technical name: CORROSIVE LIQUID, N.O.S. (5-chloro-2-methyl-2H-isothiazol-3-one)

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:
5-chloro-2-methyl-2H-isothiazol-3-one
- Risk phrases:
34 Causes burns.
43 May cause sensitisation by skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases:
1/2 Keep locked up and out of the reach of children.
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.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- National regulations
- Classification according to VbF: Void
- Water hazard class:
Water hazard class 3 (Self-assessment): extremely 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
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
34 Causes burns.
36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Department issuing data specification sheet:
Department cleaning and care agents