

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 BrushlessStar
- 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:

141-43-5 2-aminoethanol	5-15 %
Xn; R 20-36/37/38	
EINECS: 205-483-3	
5064-31-3 trisodium nitrilotriacetate	1-5 %
Xn; R 22-36	
EINECS: 225-768-6	
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: Xi Irritant
 - 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 36/38 Irritating to eyes and skin.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Contains thiram. May produce an allergic reaction.
 - Classification system
The classification is in line with current EC lists. It is expanded,
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however, by information from technical literature and by information furnished by supplier companies.

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.
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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.
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6 Accidental release measures

- Person-related safety precautions: Not required.
 - 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).
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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 temperature between 10 and 40° C.
 - 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:

141-43-5 2-aminoethanol (5-15%)

OES: Short-term value: 15 mg/m³, 6 ppm

Long-term value: 7.6 mg/m³, 3 ppm

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

OES: Short-term value: 2 mg/m³

- 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: blue
- Odour: Characteristic
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- Change in condition
- Melting point/Melting range: Not determined
- Boiling point/Boiling range: 100 ° C
- Flash point: 93 ° C
- Ignition temperature: 385.0 ° 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 1.112 g/cm³
- Solubility in / Miscibility with
- Water: Fully miscible.
- pH-value: (10 g/l) at 20 ° C 10.6

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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
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11 Toxicological information

- Acute toxicity:
 - Primary irritant effect:
 - 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

- Ecotoxicological effects:
 - Remark: Harmful to fish
 - General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not pour into groundwater or other bodies of water.
Danger to drinking water if even small quantities leak into soil.
Do not allow undiluted produkt or large quantities of it ground water and water bodies.
Diluted solutions may be disposed of in sewage plants.
Harmful to aquatic organisms
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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 (C7) Corrosive substances.
- Kemler Number: 80
- UN-Number: 3267
- Packaging group: III
- Label 8
- Designation of goods: 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ETHANOLAMINE)
- Maritime transport IMDG:
- IMDG Class: 8

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- UN Number: 3267
 - Label 8
 - Packaging group: III
 - EMS Number: 8-15
 - Marine pollutant: No
 - Correct technical name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(ETHANOLAMINE)

 - Air transport ICAO-TI and IATA-DGR:
 - ICAO/IATA Class: 8
 - UN/ID Number: 3267
 - Label 8
 - Packaging group: III
 - Correct technical name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(ETHANOLAMINE)
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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: Xi Irritant
 - Risk phrases:
36/38 Irritating to eyes and skin.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 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.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
37 Wear suitable gloves.
46 If swallowed, seek medical advice immediately and show this container or label.
 - National regulations
 - Classification according to VbF: Void
 - Water hazard class:
Water hazard class 2 (Self-assessment): 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 Harmful by inhalation.
22 Harmful if swallowed.
35 Causes severe burns.
36 Irritating to eyes.
36/37/38 Irritating to eyes, respiratory system and skin.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - Department issuing data specification sheet:
Department cleaning and care agents
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