



Material Safety Data Sheet  
According to 91/155 EC

Printing date 20.11.2002

Reviewed on 20.11.2002

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Trade name: ALTO Brushless Activator

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- After skin contact  
Instantly wash with water and soap and rinse thoroughly.  
Instantly rinse with water.
  - 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: 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).
- 

**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:  
Storage in original container.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:  
Keep container tightly sealed. Storage temperatur <40° C
  - Storage class
  - Class according to regulation on inflammable liquids: A III
- 

**8 Exposure controls and personal protection**

Components with limit values that require monitoring at the workplace:  
107-98-2 1-methoxypropan-2-ol (5-15%)  
OES: Short-term value: 560 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 375 mg/m<sup>3</sup>, 100 ppm  
IOELV, Sk

- 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: According to product specification

- Odour: Characteristic

	Value/Range	Unit	Method
- Change in condition			
- Melting point/Melting range:	Not determined		
- Boiling point/Boiling range:	100	° C	
- Flash point:	82	° C	
- Ignition temperature:	200.0	° C	
- Self-inflammability:	Product is not selfigniting.		
- Danger of explosion:	Product is not explosive.		
- Critical values for explosion:			
- Lower:	2.3	Vol %	
- Vapour pressure:	at 20 ° C	23.0	hPa
- Density	at 20 ° C	1.020	g/cm <sup>3</sup>
- Solubility in / Miscibility with			
- Water:	Difficult to mix		
- pH-value:	(10 g/l) at 20 ° C	7.6	

- Change in condition

- Melting point/Melting range: Not determined

- Boiling point/Boiling range: 100 ° C

- Flash point: 82 ° C

- Ignition temperature: 200.0 ° C

- Self-inflammability: Product is not selfigniting.

- Danger of explosion: Product is not explosive.

- Critical values for explosion:

- Lower: 2.3 Vol %

- Vapour pressure: at 20 ° C 23.0 hPa

- Density at 20 ° C 1.020 g/cm<sup>3</sup>

- Solubility in / Miscibility with

- Water: Difficult to mix

- pH-value: (10 g/l) at 20 ° C 7.6

## 10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Dangerous reactions No dangerous reactions known

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- 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: 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:  
Irritant
- 

**12 Ecological information**

- Ecotoxicological effects:
  - Remark: Toxic for 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.  
Also poisonous for fish and plankton in water bodies.  
Do not allow undiluted product or large quantities of it ground water and water bodies.  
Diluted solutions may be disposed of in sewage plants.  
Toxic for aquatic organisms
- 

**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.
- 

**14 Transport information**

- Maritime transport IMDG:
  - Marine pollutant: No
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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
- Hazard-determining components of labelling:  
5-chloro-2-methyl-2H-isothiazol-3-one

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- Risk phrases:
  - 36/38 Irritating to eyes and skin.
  - 43 May cause sensitisation by skin contact.
- Safety phrases:
  - 2 Keep out of the reach of children.
  - 24/25 Avoid contact with skin and eyes.
  - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  - 28 After contact with skin, 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.
  - 37/39 Wear suitable gloves and eye/face protection.
- National regulations
- Classification according to VbF: A III
- 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
    - 22 Harmful if swallowed.
    - 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
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