

Material Safety Data Sheet
According to 91/155 EC

Printing date 29.11.2002

Reviewed on 29.11.2002

Trade name: ALTO Metall Cleaner

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- After eye contact
Rinse opened eye for several minutes under running water.
 - After swallowing In case of persistent symptoms consult doctor.
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5 Fire fighting measures

- Suitable extinguishing agents
Use fire fighting measures that suit the environment.
 - Protective equipment: No special measures required.
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6 Accidental release measures

- Person-related safety precautions: see point 8.
 - Measures for environmental protection: Dilute with much water.
 - Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Additional information: No dangerous materials are released.
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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 applicable
 - Further information about storage conditions:
Ensure good ventilation
Keep container tightly sealed.
 - Storage class
 - Class according to regulation on inflammable liquids: Void
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8 Exposure controls and personal protection

- Personal protective equipment
 - General protective and hygienic measures
The usual precautionary measures should be adhered to general rules for handling chemicals.
 - Breathing equipment: Not required.
 - Protection of hands:
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: Safety glasses recommended during refilling.
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9 Physical and chemical properties:

- General Information

- Form: Fluid

- Colour: Light yellow

- Odour: Product specific

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- Change in condition

- Melting point/Melting range: Not determined

- Boiling point/Boiling range: 100 ° C

- Flash point: 101 ° C

- Ignition temperature: 200.0 ° 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 1.026 g/cm³

- Solubility in / Miscibility with

- Water: Fully miscible

- pH-value: (10 g/l) at 20 ° C 9

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:

- on the skin: Can cause irritation.

- on the eye: Can cause irritation.

- Sensitization: No sensitizing effect known.

- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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12 Ecological information

- 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.
The product is free from halogen organic compounds (AOX)
Diluted solutions may be disposed of in sewage plants.
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13 Disposal considerations

- Product:
- Recommendation Smaller quantities can be disposed with household waste.
 - 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: -
 - Maritime transport IMDG:
- Marine pollutant: No
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15 Regulatory information

- Designation according to EC guidelines:
Observe the normal safety regulations when handling chemicals
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
 - Safety phrases:
1/2 Keep locked up and out of the reach of children
24/25 Avoid contact with skin and eyes
 - 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
22 Harmful if swallowed.
36 Irritating to eyes.
36/38 Irritating to eyes 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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