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Safety Data Sheet

according 1907/2006/EC, article 31

Thiourea Diaphragm Cleaner

1. Identification of the substance / preparation and the company / undertaking

Use of the substance / preparation	Cleaning/maintenance of pH electrodes.
Chemical characterization	Aqueous solution containing inorganic components.
Product code	51 350 102
Supplier	Mettler-Toledo AG ANALYTICAL Sonnenbergstrasse 74 CH-8603 Schwerzenbach Schweiz Tel: +41-44-806-77-11 Fax: +41-44-806-73-50 Email: ph.lab.support@mt.com
Emergency telephone number	+41-44-251 51 51 (Tox Center)
Revision Date	24.01.2011
Number	3

2. Hazards identification

Limited evidence of a carcinogenic effect.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Possible risk of harm to the unborn child.

3. Composition / information on ingredients

Hazardous components	Thiourea, (5-10 %), [Xn;N, R-22-40-51/53-63], CAS No. 62-56-6, EU No. 612-082-00-0, EINECS No. 200-543-5 Hydrochloric acid 25%, (<2 %), [C, R-34-37], EU No. 017-002-01-X, EINECS No. 231-595-7
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4. First aid measures

Inhalation	No special measures required.
Skin contact	Wash off with soap and water.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Immediately give large quantities of water to drink. Consult a physician for severe cases.

5. Fire-fighting measures

Suitable extinguishing media	No special measures required.
Extinguishing media which must not be used for safety reasons	None.
Specific hazards	The product is not flammable.
Special protective equipment for firefighters	Standard procedure for chemical fires.

6. Accidental release measures

Personal precautions	Sweep up to prevent slipping hazard.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Flush with water.



7. Handling and storage

Handling	When using, do not eat, drink or smoke. Practice care and caution to avoid skin contact and inhalation of vapours or mists if generated.
Storage	Keep containers tightly closed.

8. Exposure controls / personal protection

Exposure limit(s)	OEL value: 7.5 mg/m ³ (Hydrogen chloride) [Embryotoxic substance (group C): there is no reason to fear poisoning of the fetus as long as the exposure is below the OEL value]
Engineering measures to reduce exposure	Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.
Personal protection equipment: Respiratory protection	In case of good ventilation no personal respiratory protective equipment required.
Hand protection	Gloves.
Eye protection	Safety glasses.

9. Physical and chemical properties

Form	Liquid.
Colour	Colourless. Clear.
Odour	None.
Physical and chemical properties	pH: 1 Boiling point/range: > 100 °C Relative density: ~1 g/ml. Flash point: does not ignite Water solubility: completely miscible



10. Stability and reactivity

Stability	Stable under recommended storage conditions.
Conditions to avoid	Vapours in contact with fire or red-hot surfaces may form decomposition products with highly irritating and warning effects.
Materials to avoid	Incompatible with bases. Corrodes base metals.
Hazardous decomposition Products	Hydrogen chloride gas.

11. Toxicological information

Acute toxicity	Hydrogen chloride: LC50/inhalation/1h/rat = 3124 ppm. LC50/inhalation/1h/mouse = 1108 ppm.
Local effects	Extremely corrosive and destructive to tissue.
Long term toxicity	Chronic intensive skin contact may cause dermatitis.
Sensitization	None.
Further information	No persistent or cumulative effects were observed.

12. Ecological information

Ecotoxicity	Wastewater from subsequent processing should be given appropriate treatment in line with local regulations. LC50/24h/goldfish = 562 mg/l.
Mobility	No data is available on the product itself.
Bioaccumulation	Does not bioaccumulate.

13. Disposal considerations

Waste from residues / unused products	Taking into account local regulations the product may be disposed of as wastewater after neutralisation. European Waste catalogue code (EWC-code): 06 03 14.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.



14. Transport information

Further information Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

Regulatory information The product is classified and labelled in accordance with EC directives or respective national laws.

Symbol(s) Xn - Harmful.

R-phrase(s) R40: Limited evidence of a carcinogenic effect.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63: Possible risk of harm to the unborn child.

S-phrase(s) S24/25: Avoid contact with skin and eyes.
S36/37: Wear suitable protective clothing and gloves.
S56: Dispose of this material and its container to hazardous or special waste collection point.

16. Other information

Recommended use For industrial application only.

Text of R phrases mentioned in section 2 R22: Harmful if swallowed. R40: Limited evidence of a carcinogenic effect.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63: Possible risk of harm to the unborn child.

End use The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. It is not to be considered a warranty or quality specification.

