

Address Im Hackacker 15, CH-8902 Urdorf, Switzerland
Mail address P.O. Box, CH-8902 Urdorf, Switzerland
Phone +41-44-729 62 11
Fax +41-44-729 66 36
Bank Credit Suisse, 8070 Zurich, Clearing 4835
Account No. 370501-21-90 CHF/BAN CH71 0483 5037 0501 2109 0

www.mtpro.com

Safety Data Sheet

Electrode cleaner (9891)

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	51 340 068, 51 340 069, 51 319 041
Supplier	Mettler-Toledo AG Process Analytics Im Hackacker 15 CH-8902 Urdorf Switzerland Tel: +41-44-729 62 11 Fax: +41-44-729 66 36
Emergency telephone number	+41-44-251 51 51 (Tox Center)
Revision date	04.07.2006
Number	2

2. Composition / information on ingredients

Hazardous components	Hydrochloric acid 25 %, (<2 %), [C, R-34-37], EU No. 017-002-01-X, EINECS No. 231-595-7 Pepsin (0.2 %), [Xn, R-36/37/38-42], CAS No. 64-19-7, EU No. 607-002-00-6, EINECS No. 200-580-7
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3. Hazards identification

No hazards to be especially mentioned.

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

Engineering measures to reduce exposure	Avoid contact with clothing.
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.
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15. Regulatory information

Regulatory information	The product does not need to be labelled in accordance with EC-Directive 1999/45. Contains: Pepsin. May produce an allergic reaction.
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Symbol(s)	None.
R-phrase(s)	None.
S-phrase(s)	S25: Avoid contact with eyes.

16. Other information

Recommended use For industrial application only.

Text of R phrases mentioned in section 2

R34: Causes burns.
R36/37/38: Irritating to eyes, respiratory system and skin.
R37: Irritating to respiratory system.
R42: May cause sensitization by inhalation.

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.
