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# Safety Data Sheet

## Diaphragm cleaner (9892)

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

<b>Use of the substance / preparation</b>	Cleaning/maintenance of pH electrodes.
<b>Chemical characterization</b>	Aqueous solution containing inorganic components.
<b>Product code</b>	51 340 070, 51 340 082
<b>Supplier</b>	Mettler-Toledo AG Process Analytics Im Hackacker 15 CH-8902 Urdorf Switzerland Tel: +41-44-729 62 11 Fax: +41-44-729 66 36
<b>Emergency telephone number</b>	+41-44-251 51 51 (Tox Center)
<b>Revision date</b>	04.07.2006
<b>Number</b>	2

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### 2. Composition / information on ingredients

<b>Hazardous components</b>	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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### 3. 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.

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### 4. First aid measures

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

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### 5. Fire-fighting measures

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

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### 6. Accidental release measures

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

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## 7. Handling and storage

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

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## 8. Exposure controls / personal protection

<b>Exposure limit(s)</b>	OEL value: 7.5 mg/m <sup>3</sup> (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]
<b>Engineering measures to reduce exposure</b>	Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.
<b>Personal protection equipment: Respiratory protection</b>	In case of good ventilation no personal respiratory protective equipment required.
<b>Hand protection</b>	Gloves.
<b>Eye protection</b>	Safety glasses.

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## 9. Physical and chemical properties

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

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## 10. Stability and reactivity

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

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## 11. Toxicological information

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

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## 12. Ecological information

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

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## 13. Disposal considerations

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

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## 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 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.

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## 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.

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