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# Safety Data Sheet

according 1907/2006/EC, article 31

## TISAB III solution (9870)

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

<b>Use of the substance / preparation</b>	Electrolyte for titration.
<b>Chemical characterization</b>	Aqueous solution containing inorganic components.
<b>Product code</b>	51 340 064
<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 Email: <a href="mailto:process.hotline@mt.com">process.hotline@mt.com</a>
<b>Emergency telephone number</b>	+41-44-251 51 51 (Tox Center)
<b>Revision date</b>	17.08.2009
<b>Number</b>	3

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### 2. Hazards identification

Irritating to eyes and skin.

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### 3. Composition / information on ingredients

<b>Hazardous components</b>	Acetic acid, (10 %), [C, R-10-35], CAS No. 64-19-7, EU Nr. 607-002-00-6, EINECS Nr. 200-580-7 Sodium acetate (40 %), [not EU classified], CAS No. 127-09-3 ; Ammonium chloride, (<20 %), [Xn, R-22-36], CAS No. 2125-02-9, EU No. 017-014-00-8, EINECS No. 235-186-4
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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. Avoid contact with skin and eyes.
<b>Storage</b>	Keep containers tightly closed.

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## 8. Exposure controls / personal protection

<b>Exposure limit(s)</b>	OEL value: 10 ppm; 25 mg/m <sup>3</sup> (Acetic acid) OEL value: 6 mg/m <sup>3</sup> (Ammonium chloride) [alveolar dust]
<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>	No personal respiratory protective equipment normally 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>	Vinegar-like.
<b>Physical and chemical properties</b>	pH: 4.5 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>	Extremes of temperature and direct sunlight.
<b>Materials to avoid</b>	Incompatible with bases.
<b>Hazardous decomposition products</b>	Hydrogen, by reaction with metals.

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## 11. Toxicological information

<b>Acute toxicity</b>	<u>Acetic acid:</u> LD50/oral/rat = 3310 mg/kg. LC50/inhalative/mouse = 5620 ppm.  <u>Sodium acetate:</u> LD50/oral/rat = 3530 mg/kg. LC50/inhalative/rat >30000 ppm. LD50/oral/mouse = 6890 mg/kg.
<b>Local effects</b>	Irritating to eyes and skin.
<b>Sensitization</b>	None.
<b>Specific effects</b>	No data is available on the product itself.
<b>Human experience</b>	This product has no known adverse effect on human health.
<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.
<b>Mobility</b>	No data is available on the product itself.

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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

<b>Further information</b>	Not classified as dangerous in the meaning of transport regulations.
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## 15. Regulatory information

<b>Regulatory information</b>	The product is classified and labelled in accordance with EC directives or respective national laws.
<b>Symbol(s)</b>	Xi - Irritant.
<b>R-phrases(s)</b>	R36/38: Irritating to eyes and skin.
<b>S-phrases(s)</b>	S24: Avoid contact with skin. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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## 16. Other information

<b>Recommended use</b>	For industrial application only.
<b>Text of R phrases mentioned in section 2</b>	R10: Flammable. R22: Harmful if swallowed. R35: Causes severe burns. R36: Irritating to eyes.
<b>End use</b>	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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