

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Conductivity Standard 100 µS/cm

Revision date: 28.03.2012 Version: 2 Language: en-US Date of print: 06.03.2014

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# 1. Product and company identification

#### **Product identifier**

Trade name: Conductivity Standard 100 µS/cm

This safety data sheet pertains to the following products:

Material number 238934

Article number 238934, 238977

### Relevant identified uses of the substance or mixture and uses advised against

General use: Calibration of conductivity sensors

### Details of the supplier of the safety data sheet

Company name: HAMILTON Bonaduz AG

Street/POB-No.: Via Crusch 8
Postal Code, city: 7402 Bonaduz

Switzerland

WWW: www.hamilton.ch
Telephone: +41 81 660 62 76
Telefax: +41 81 660 60 70

Dept. responsible for information:

Susanne Näf-Rüdiger,

Telephone: +41 81 660 62 76, E-mail SNaef@hamilton.ch

### **Emergency telephone number**

GIZ-Nord, Germany, Telephone: +49 (0)551-19240

## 2. Hazards identification

#### **Emergency overview**

Appearance: Physical state: liquid

Color: colorless

Odor: odorless

### Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard

(29 CFR 1910.1200) and SIMDUT in Canada.

## Information pertaining to special dangers for human and environment

see section 11: Toxicological information

# 3. Composition / Information on ingredients

Chemical characterization: Aqueous solution of anorganic salts and organic compounds.

Additional information: Contains Glycerol: The maximum workplace exposure limits are expressed in Section 8, as

may be required.

## 4. First-aid measures

In case of inhalation: Move victim to fresh air. In case of respiratory difficulties seek medical attention.

In case of skin contact: Remove residues with soap and water.

Change contaminated clothing. In case of skin reactions, consult a physician.



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After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Subsequently consult an ophthalmologist.

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Rinse mouth and drink large quantities of water. Induce vomiting when the affected person is After swallowing:

not unconscious. If you feel unwell, seek medical advice.

### Most important symptoms and effects, both acute and delayed

no data available

### Information to physician

Treat symptomatically.

# 5. Firefighting measures

Flash point/flash point range:

approx. 180 °C

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

### Special hazards arising from the substance or mixture

In the event of a fire, the following may be produced when the water evaporates: Carbon monoxide and carbon dioxide.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Wear suitable protective clothing.

### 6. Accidental release measures

Avoid contact with the substance. Do not breathe vapors. Provide adequate ventilation. Remove Personal precautions:

all sources of ignition.

Environmental measures: Do not allow to penetrate into soil, waterbodies or drains.

Methods for cleaning up: Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store

in special closed containers and dispose of according to ordinance. Wash spill area with plenty

of water.

# 7. Handling and storage

#### Handling

Advices on safe handling: Avoid contact with skin and eyes. Do not breathe vapors.

Provide adequate ventilation.

### Storage

Requirements for storerooms and containers:

Keep container tightly closed. Store at room temperature. (Recommendation: 15 - 25 °C)

### Specific use(s)

Calibration of conductivity sensors



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# 8. Exposure controls / personal protection

### **Exposure guidelines**

Occupational exposure limit values:

CAS No. Designa	ation Type	Limit value	
56-81-5 Glycero	USA: OSHA: TWA USA: OSHA: TWA	15 mg/m³ (total) 5 mg/m³ (respirable fraction)	

### **Engineering controls**

Provide good ventilation and/or an exhaust system in the work area.

See also information in chapter 7, section storage.

Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Body protection: Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: natural rubber, nitrile rubber, butyl caoutchouc (butyl rubber).

Breakthrough time >= 480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

### Personal protection equipment

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29

CFR: 1910.134 or ANSI Z88.2.

### General protection and hygiene measures

Change contaminated clothing.
After work, wash hands and face.

# 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Physical state: liquid

Color: colorless

Odor: odorless

pH value: at 20 °C: approx. 6
Initial boiling point and boiling range: approx. 120 °C
Flash point/flash point range: approx. 180 °C

Density: at 20 °C: approx. 1.2 g/mL

Water solubility: at 20 °C: soluble

**Additional information** 

-

Ignition temperature: approx. 430 °C

## 10. Stability and reactivity

Reactivity: no data available

Chemical stability: Product is stable under normal storage conditions.



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Possibility of hazardous reactions

No hazardous reactions known.

Conditions to avoid: Protect from excessive heat.

Materials to avoid: strong oxidizing agents, nitric acid, sulphuric acid, phosphorus oxides, peroxides, halogens.

Hazardous decomposition products:

In the event of a fire, the following may be produced when the water evaporates: Carbon

monoxide and carbon dioxide.

# 11. Toxicological information

### **Toxicological tests**

Toxicological effects: Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

**Symptoms** 

After ingestion of high quantities: Headache, nausea, inebriation, vomiting, abdominal pain,

drowsiness, diarrhea.

**General remarks** 

After ingestion of high quantities: Headache, nausea, inebriation, vomiting, abdominal pain,

drowsiness, diarrhea.

# 12. Ecological information

### Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

# 13. Disposal considerations

#### **Product**

Recommendation: Dispose of waste according to applicable legislation.

### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.



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## 14. Transport information

### **USA: Department of Transportation (DOT)**

Proper shipping name: Not controlled under DOT

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: No

Air transport (IATA)

Proper shipping name: Not restricted

#### **Further information**

No dangerous good in sense of these transport regulations.

## 15. Regulatory information

### **U.S. Federal Regulations**

Glycerol: TSCA Inventory: listed

TSCA HPVC: not listed

Clean Air Act:

SOCMI Chemical: yes NIOSH Recommendations:

Occupational Health Guideline: 0302

### National regulations - EC member states

#### Labeling (67/548/EEC or 1999/45/EC)

Code letter and hazard symbol:

not applicable

R phrase(s): not applicable
S phrase(s): not applicable

### National regulations - Great Britain

Hazchem-Code: -

## 16. Other information

Hazard rating systems: NFPA Hazard Rating:



Health: 1 (Slight)
Fire: 0 (Minimal)
Reactivity: 0 (Minimal)
HMIS Version III Rating:
Health: 1 (Slight)

Flammability: 0 (Minimal)
Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

Reason of change: General revision
Date of first version: 20.04.2011

#### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

