

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

Conductivity Standard 15 µS/cm

Material number 238927 Page:

Revision date: 28.03.2012 Version: 2 Language: en-US Date of print: 18.12.2012

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1. Product and company identification

Product identifier

Trade name: Conductivity Standard 15 µS/cm

This safety data sheet pertains to the following products:

Article number 238927

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

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Dept. responsible for information:

Susanne Näf-Rüdiger,

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Emergency telephone number

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

2. Hazards identification

Emergency overview

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

After 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.

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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After swallowing:

Rinse mouth and drink large quantities of water. Induce vomiting when the affected person is 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. 356 °F

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

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

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

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
56-81-5	Glycerol	USA: ACGIH: TWA USA: OSHA: TWA	10 mg/m³ 15 mg/m³ (total)
		USA: OSHA: TWA	5 mg/m³ (respirable fraction)



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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 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

Appearance

Physical state: liquid
Color: colorless
Odor: odorless

Important health, safety and environmental information

Boiling temperature / boiling range: approx. 248 °F Flash point / flash point range: approx. 356 °F Ignition temperature: approx. 806 °F

Density: at 68 °F: approx. 1,2 g/mL

pH value: at 68 °F: approx. 6
Water solubility: at 68 °F: soluble

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Product is stable under normal storage conditions.

Polymerisation: 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.



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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,

dizziness, diarrhea.

General remarks

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

dizziness, 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.

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



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Air transport (IATA)

Proper shipping name: Not restricted

Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not controlled under TDG

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.

