



SAFETY DATA SHEET

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

Conductivity Standard 100 $\mu\text{S}/\text{cm}$

Material number 2.1750

Revision date: 7/2/2015
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1. Product and company identification

Product identifier

Trade name: Conductivity Standard 100 $\mu\text{S}/\text{cm}$
This safety data sheet pertains to the following products:
Article number 2.1750

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

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Emergency phone number

125

2. Hazards identification

Emergency overview

Appearance: Form: liquid
Color: colorless
Odor: odorless
Classification: This material is classified as not hazardous.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

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, where necessary, listed in section 8.

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4. First aid measures

- In case of inhalation: Move victim to fresh air. In case of respiratory difficulties seek medical attention.
- Following 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.
- 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/effects, acute and delayed

no data available

Information to physician

Treat symptomatically.

5. Fire fighting measures

- Flash point/flash point range:
approx. 180 °C
- Auto-ignition temperature: no data available
- Suitable extinguishing media:
Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Specific hazards arising from the chemical

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

Protective equipment and precautions 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. Wear protective equipment. Remove all sources of ignition.
- Environmental precautions:
Do not allow to penetrate into soil, waterbodies or drains.
- Methods for clean-up: Soak up with absorbent materials such as sand, siliceous 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.

Specific use(s) Calibration of conductivity sensors

Storage

Requirements for storerooms and containers:

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

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
56-81-5	Glycerol	USA: OSHA: TWA	15 mg/m ³ inhalable fraction
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)

Engineering controls

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

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

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

Skin 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.

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 hygiene considerations:

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: liquid Color: colorless
Odor:	odorless
Odor threshold:	no data available
pH value:	at 20 °C: approx. 6
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	approx. 120 °C
Flash point/flash point range:	approx. 180 °C
Evaporation rate:	no data available
Flammability:	no data available
Explosion limits:	no data available
Vapor pressure:	no data available
Vapor density:	no data available

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Density:	at 20 °C: approx. 1.2 g/mL
Water solubility:	at 20 °C: soluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Ignition temperature:	approx. 430 °C

10. Stability and reactivity

Reactivity:	no data available
Chemical stability:	Product is stable under normal storage conditions.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid:	Protect from excessive heat.
Incompatible materials:	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.
Thermal decomposition:	no data available

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**Ecotoxicity**

Further details: no data available

Mobility in soil

no data available

Persistence and degradability

Further details: no data available

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

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 - 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

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Reason of change: General revision (Regulation (EU) No 2015/830)

Date of first version: 4/20/2011

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.