

Conductivity Standard 147 µS/cm

Material number 238985

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1. Product and company identification**Product identifier**

Trade name: Conductivity Standard 147 µS/cm

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

General use: Calibration solution

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,

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

4. First-aid measures

In case of inhalation: Move victim to fresh air. Seek medical attention.

In case of skin contact: Remove residues with water. Change contaminated clothing.
In case of skin reactions, consult a physician.

After eye contact: With eyelids open, wash out eyes for several minutes under flowing water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth and drink large quantities of water.
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:

not combustible

Suitable extinguishing media:

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

Special hazards arising from the substance or mixture

Fires in the immediate vicinity may cause the development of dangerous vapors.

Special protective equipment for firefighters:

In case of surrounding fires: Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Avoid contact with skin, eyes, and clothing.

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

Methods for cleaning 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 prolonged and intensive skin contact.

Storage

Requirements for storerooms and containers:

Keep container tightly closed. Store at room temperature.

Specific use(s)

calibration solution

8. Exposure controls / personal protection**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.

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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: Provide adequate ventilation.

General protection and hygiene measures

Change contaminated clothing.
Wash hands before breaks and after work.

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: 4.0 - 8.0
Initial boiling point and boiling range:	approx. 100 °C
Flash point/flash point range:	not combustible
Density:	at 20 °C: approx. 1.0 g/mL
Water solubility:	at 20 °C: infinitely soluble

Additional information

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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.
Materials to avoid:	strong acids and alkalis
Hazardous decomposition products:	Fires in the immediate vicinity may cause the development of dangerous vapors.

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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.

12. Ecological information**Additional ecological information**

General information: Do not allow to enter undiluted resp. in large quantities into surface water or into 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.

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15. Regulatory information**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: B

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	B

Reason of change: General revision

Date of first version: 03.03.2011

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.