

Storage Solution

Material number 238931/237439/238295

Page: 1 of 7

1. Product and company identification

Product identifier

Trade name: Storage Solution

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

General use: Storage solution for pH 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.hamiltoncompany.com

Telephone: +41 58 610 10 10

Department responsible for information:

After-sales service

E-mail: techsupport.pa.ch@hamilton.ch**Emergency phone number**

GIZ-Nord, Göttingen, Germany,

Telephone: +49 551-19240

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: 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).

Hazards not otherwise classified

Special danger of slipping by leaking/spilling product.

see section 11: Toxicological information

3. Composition / Information on ingredients

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

Storage Solution

Material number 238931/237439/238295

Page: 2 of 7

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 55965-84-9	Mixture of 5-chloro-2-methyl- 2H-isothiazolin-3- one and 2-methyl-2H- isothiazol-3-one (3:1)	< 0.0015 %	Acute Toxicity - oral - Category 3. Acute Toxicity - dermal - Category 2. Acute Toxicity - inhalative - Category 2. Skin Corrosion - Category 1C. Eye Damage - Category 1. Sensitization - skin - Category 1. Aquatic toxicity - acute - Category 1 (M-factor = 100). Aquatic toxicity - chronic - Category 1 (M-factor = 100).

4. First aid measures

General information:	If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
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. In case of skin reactions, consult a physician.
After eye contact:	With eyelids open, wash out eyes for several minutes under flowing water. Remove contact lenses, if present and easy to do. Continue rinsing. 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/effects, acute and delayed

May cause allergic reactions in already sensitized persons.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:	No data available
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

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

Protective equipment and precautions for firefighters:

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

6. Accidental release measures

Personal precautions:	Avoid contact with skin and eyes. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.
-----------------------	---

Storage Solution

Material number 238931/237439/238295

Page: 3 of 7

Environmental precautions:

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

Methods for clean-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: Provide adequate ventilation. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse.
Wash hands thoroughly after handling.

Storage**Requirements for storerooms and containers:**

Keep container tightly closed. Store at room temperature.

8. Exposure controls / personal protection

Engineering controlsProvide 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: Nitrile rubber or butyl caoutchouc (butyl rubber).

Breakthrough time: >480 min.

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

Respiratory protection: Provide adequate ventilation.

General hygiene considerations:

Do not breathe vapor or spray. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Color: Colorless

Odor: Odorless

Odor threshold: No data available

Storage Solution

Material number 238931/237439/238295

Page: 4 of 7

pH:	at 68 °F: approx. 4.0
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	approx. 212 °F
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	at 68 °F: approx. 1.1 g/mL
Water solubility:	at 68 °F: Completely miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions known.
Conditions to avoid:	No data available
Incompatible materials:	strong acids and alkalis
Thermal decomposition:	No data available

Storage Solution

Material number 238931/237439/238295

Page: 5 of 7

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.
- Serious eye damage/irritation: Lack of data.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Based on available data, the classification criteria are not met.
- Contains Mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
- 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**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 undiluted resp. in large quantities into surface water or into drains.

13. Disposal considerations**Product**

Recommendation: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

Storage Solution

Material number 238931/237439/238295

Page: 6 of 7

14. Transport information**14.2 UN proper shipping name**

ADR/RID, IMDG, IATA-DGR:

Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

Environmental hazards

Marine pollutant:

no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

USA: Department of Transportation (DOT)

Proper shipping name:

Not restricted

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**National regulations - U.S. Federal Regulations**

No data available

National regulations - Great Britain

Hazchem-Code:

-

Storage Solution

Material number 238931/237439/238295

Page: 7 of 7

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	

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level

DNEL: Derived no-effect level

EC: European Community

EN: European Standard

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

M-factor: Multiplication factor

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: Material number

Date of first version: 2/22/2011

Department issuing data sheet

Contact person: see section 1: Department 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.