

according to 29 CFR 1910 1200 and ANSI standard 7400 1-2010

pH Buffer 4.01

Material number 238xx4

Revision date: 9/5/2022 Version: Language

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# 1. Product and company identification

#### **Product identifier**

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This safety data sheet pertains to the following products:

Article number 238194, 238217, 238317, 238332, 238895, 238917, 238924, 238922, 242317.

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

General use: Buffer solution, 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

www. www.hamiltoncompany.com

+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: Red Odorless

This material is classified as not hazardous. Classification:

# Regulatory status

Odor:

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 with Potassium hydrogen phthalate

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 1A. Aquatic toxicity - acute - Category 1 (M-factor = 100). Aquatic toxicity - chronic - Category 1 (M-factor = 100).



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### 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 opthalmologist.

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 No data available Auto-ignition temperature:

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.

Additional information: Cool exposed containers with water spray.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with

the regulations of the local authorities.

#### 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.

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

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

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

Additional information: Special danger of slipping by leaking/spilling product.

# 7. Handling and storage

#### Handling

Advices on safe handling Provide adequate ventilation. Avoid contact with skin and eyes. Wear appropriate protective

equipment. Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.



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#### **Storage**

Requirements for storerooms and containers:

Keep container tightly closed. Store at room temperature.

Protect from frost.

Store containers in upright position.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

keep away from acids and alkalis

# 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.

#### 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 vapors. Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

# **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: Red

Odorless Odor

Odor threshold: No data available

at 68 °F: 4.0 pH: 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. 1.0 g/mL Water solubility: at 68 °F: Completely miscible

No data available Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: Thermal decomposition: No data available



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0.9 - 1.9 % Water content 98.1 - 99.1 %

# 10. Stability and reactivity

Reactivity: Refer to subsection "Possilbility of hazardous reactions".

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid: Protect from frost.

Strong acids and alkalis Incompatible materials:

Hazardous decomposition products:

No decomposition when used properly.

Thermal decomposition: No data available

# 11. Toxicological information

#### **Toxicological tests**

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data

is available for the product as such. Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data. Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Serious eye damage/irritation: 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



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### Additional ecological information

**HAMILT®N** 

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.

# 14. Transport information

#### **UN** number

ADR/RID, IMDG, IATA-DGR: not applicable

### **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: nο

### 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

Mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

CAS 55965-84-9 = CAS 2682-20-4 + 26172-55-4:

TSCA listed - Flags P; S



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# 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

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

Aquatic toxicity - acute: Hazardous to the aquatic environment - acute Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMFI : Derived minimal effect level DNEL: Derived no-effect level EC: European Community

EN: European Standard EQ: Excepted quantities Eye Damage: Eye damage

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

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

Sensitization - skin: Skin sensitisation

Skin Corrosion: Skin corrosion

TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: Material number

Date of first version: 2/18/2011

### 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.

> Most recent product information is availa http://sumdat.net/923bca

