

Safety Data Sheet acc. to OSHA HCS

Printing date 10/02/2013

Reviewed on 10/02/2013

Identificatio	n
Product identij	ïer
Trade name: 1	00-2 (Oxalate std. sol.)
MSDS No: 10 Relevant idente No further rele	2200043639 (9003001500) f <b>ied uses of the substance or mixture and uses advised against</b> vant information available. <b>the substance / the preparation</b> Reference solution for pH electrode
Manufacturer/ HORIBA, Ltd. 2 Miyanohigas	hi, Kisshoin, hto, Japan, KYOTO
	p <b>artment:</b> Liquid & Water Quality R&D Dept p <b>hone number:</b> During normal opening times: +81 75 313-8121
Hazard(s) id	entification
	of the substance or mixture not classified according to the Globally Harmonized System (GHS).
Information co The product do Classification s The classificat	according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable. Example a particular hazards for human and environment: The sense have to be labeled due to the calculation procedure of international guidelines. Exystem: The sense have according to the latest editions of international substances lists, and expande pany and literature data.
Label elements	
Observe the ge	
	$\begin{aligned} Health &= 0\\ Fire &= 0\\ Reactivity &= 0 \end{aligned}$
HMIS-ratings	(scale 0 - 4)
FIRE 0	Health = 0 Fire = 0 Reactivity = 0
Other hazards Results of PBT PBT: Not appl	and vPvB assessment icable.

(Contd. on page 2)

Page 1/7



Page 2/7

### Safety Data Sheet acc. to OSHA HCS

Printing date 10/02/2013

Reviewed on 10/02/2013

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(Contd. of page 1)

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Components:
- 6100-20-5 Potassium trihydrogen dioxalate dihydrate

Nearly 1%

# 4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation:
- Remove the victim to fresh air, and make him blow his nose and gargle. Refer for medical attenation.
- After skin contact: Wash the affect areas under running water.
- · After eye contact:
- Immediately rinse the affected eyes with running water for at least 15 minutes, and refer for medical attention.
- · After swallowing: Give the victim water. If necessary, get medical attention.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: This product is noncombustible.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- $\cdot \textit{Environmental precautions: Dilute with plenty of water.}$
- · Methods and material for containment and cleaning up:
- Sweep up and place in a vessel. Flush residual area with water.
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections No dangerous substances are released.

# 7 Handling and storage

- · Handling:
- **Precautions for safe handling** Keep receptacles tightly sealed. Keep away from heat and direct sunlight. No special measures required.

(Contd. on page 3)



Safety Data Sheet acc. to OSHA HCS

Printing date 10/02/2013

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(Contd. of page 2)

Page 3/7

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· Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Storage class:
- · Class according to regulation on flammable liquids: Void
- *Specific end use(s) No further relevant information available.*

#### 8 Exposure controls/personal protection

• Additional information about design of technical systems: Provide good ventilation. Make available washbasin and eye wash near the work area.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Suitable respiratory protective device recommended.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Goggles recommended during refilling.
- · Body protection: Use protective suit.

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance: Form:

Liquid

(Contd. on page 4)



Page 4/7

# Safety Data Sheet acc. to OSHA HCS

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Reviewed on 10/02/2013

#### Trade name: 100-2 (Oxalate std. sol.)

		(Contd. of page 3)
Color:	Colorless	
· Odor:	Odorless	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	Not applicable.	
· Auto igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Density:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
• Other information	No further relevant information available.	

### **10 Stability and reactivity**

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 5)

USA



Safety Data Sheet acc. to OSHA HCS

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Reviewed on 10/02/2013

(Contd. of page 4)

Trade name: 100-2 (Oxalate std. sol.)

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must be specially treated adhering to official regulations. Smaller quantities can be disposed of with household waste.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

### **14 Transport information**

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
· Packing group		
· DOT, ADR, IMDG, IATA	Void	
· Environmental hazards:		
• Marine pollutant:	No	
$\cdot$ Special precautions for user	Not applicable.	
• Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
		(Contd. on page 6

USA

Page 5/7



Page 6/7

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/02/2013

Reviewed on 10/02/2013

Trade name: 100-2 (Oxalate std. sol.)

	(Contd. of page 5)
· Transport/Additional information:	Cheak the containers are thghthly sealed. Handle carefully so that they will not be damaged by falling or dropping. Keep away from water.
· UN ''Model Regulation'':	-

### **15 Regulatory information**

- $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara
- · Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.

### · TSCA (Toxic Substances Control Act):

None of the ingredients is listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

*Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials.* 

#### · National regulations:

· Classification according to VbF: Void

• Water hazard class: Generally not hazardous for water.



Page 7/7

### Safety Data Sheet acc. to OSHA HCS

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. of page 6)

# **16 Other information**

HORIBA, Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensives or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. HORIBA, Ltd. MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MARCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMOTION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, HORIBA, Ltd. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION. · Department issuing MSDS: Water and Temperature Measurement R&D Dept. · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) · Sources The MERCK Index 12th Edition HANDBOOK OF ENVIROMENTAL DATA ON ORGANIC CHEMICALS (Karel Verschueren VAN NOSTRAND REINHOLD) Safety data sheet guidebook edited by the information center of the Society for Japan Chemical Industry  $\cdot$  \* Data compared to the previous version altered. Data: Jun. 13, 1998 Revise: Dec. 17, 2009 Revised: Oct. 2, 2013 USA