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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 09.05.2012

Revision: 09.05.2012

1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Name of chemical substance: Reference solution 330

· Article number: 3200043641 (9037005200)

• **MSDS No:** 16

- · Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation Reference solution
- \cdot Details of the supplier of the safety data sheet

 Manufacturer/Supplier: HORIBA, Ltd.
 Miyanohigashi, Kisshoin, Minami-ku Kyoto, Japan, KYOTO 601-8510 JAPAN techinfo.hor@jp.horiba.com

• Further information obtainable from: Liquid & Water Quality R&D Dept.

• Emergency telephone number: During normal opening times: +81 75 313-8121

2 Hazards identification

· Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

Void

· Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

• Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· Label elements

· Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

· Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Components:

CAS: 7447-40-7 potassium chloride EINECS: 231-211-8

Nearly 25,0%

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· Additional information:

For the wording of the listed risk phrases refer to section 16. Included high water-absorbent resin (nearly 2%)

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.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Firefighting 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.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Sweep up and place in a vessel. Flush residual area with water.
- 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.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.

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• Further information about storage conditions: Keep container tightly sealed. Protect from heat and direct sunlight.

· 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 facilities: Provide good ventilation. Make available washbasin and eye wash near the work area.
- · Control parameters
- · Ingredients 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 valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: 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.

· Information on basic physical and chemical properties · General Information			
Appearance:			
Form:	Liquid		
Colour:	Colourless		
Odour:	Odourless		



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• Change in condition Melting point/Melting range: Boiling point/Boiling range:		
· Flash point:	Not applicable.	
· Self-igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
 Solubility in / Miscibility with water: Other information 	Fully miscible. 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:

· LD/LC50 values relevant for classification:

7447-40-7 potassium chloride

Oral LD50 383 mg/kg (rat)

- · 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 the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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

12 Ecological information

- · Toxicity
- Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.

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• *Mobility in soil* No further relevant information available.

- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 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.
- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex 1 MARPOL73/78 and the IBC Code	I of Not applicable.
• Transport/Additional information:	Cheak the containers are tightly sealed. Handle carefully so that they will not be damaged by falling or dropping. Keep away from water.
· UN "Model Regulation":	-

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15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

- · National regulations:
- · Classification according to VbF: Void
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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· Department issuing MSDS: Water and Temperature Measurement R&D Dept.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent · Sources RTECS Safety data sheet guidebook edited by the information center of the Society for Japan Chemical Industry A chemistry large dictionary (KIORITZ CORP. publication 1963) \cdot * Data compared to the previous version altered. Date Feb. 16, 1998

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