

Creation Date 12-Apr-2010

Revision Date 24-Nov-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION**Product Identifier****Product Description:**

Buffer solution pH 4, Phthalate buffer

Cat No.

J/2825/17, J/2825/07, J/2825/24, J/2825/21, J/2825

Relevant identified uses of the substance or mixture and uses advised against**Recommended Use**

Laboratory chemicals

Uses advised against

No Information available

Details of the supplier of the safety data sheet**Company**

Fisher Scientific UK

Bishop Meadow Rd

Loughborough, Leicestershire, Great Britain

LE115RG

Tel: 01509 231166

E-mail address

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

Tel: 01509 231166 Chemtrec US: (800) 424-9300

Chemtrec EU: 001 (202) 483-7616

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC*For the full text of the R phrases mentioned in this Section, see Section 16***R -phrase(s)**

none

Label Elements**Signal Word**

None

Hazard Statements**Other Hazards**

No information available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
1,2-Benzenedicarboxylic acid, monopotassium salt 877-24-7	EEC No. 212-889-4	1.02	877-24-7	-	-	-
Acid fuchsine 3244-88-0	EEC No. 221-816-5	0.0005	3244-88-0	-	-	-
Mercuric chloride 7487-94-7	EEC No. 231-299-8	0.001	7487-94-7	T+;R28 T;R48/24/25 C;R34 N;R50-53	Acute Tox. 2 (H300) Skin Corr. 1B (H314) Muta. 2 (H341) Repr. 2 (H361f) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-
Water 7732-18-5	EEC No 231-791-2	98.9785	7732-18-5	-	-	-

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES
Description of first aid measures
Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain medical attention

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes Get medical attention immediately if symptoms occur Remove and wash contaminated clothing before re-use

Ingestion

Do not induce vomiting Obtain medical attention

Inhalation

Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Get medical attention immediately if symptoms occur

Notes to Physician

Treat symptomatically

5. FIRE-FIGHTING MEASURES
Extinguishing media
Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

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Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

Environmental precautions

Should not be released into the environment.

Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment Ensure adequate ventilation Avoid contact with skin, eyes and clothing Avoid ingestion and inhalation

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
Exposure limits
Component

Mercuric chloride

European Union	The United Kingdom	France	Belgium	Spain
		0.1mg/ml VME	0.1mg/ml VLE 0.025mg/m ³ TWA (as Hg)	0.1mg/m ³ VLA-ED (as Hg)

Component

Mercuric chloride

Italy	Portugal	The Netherlands	Finland	Denmark
		0.15 mg/m ³ STEL 0.05 mg/m ³ MAC	TWA: 0.05 mg/m ³	

Component

Mercuric chloride

Austria	Switzerland	Poland	Norway	Ireland
			TWA: 0.02 mg/m ³	

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Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available.
Exposure controls	
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location Ensure adequate ventilation, especially in confined areas
Personal protective equipment	
Eye Protection	Safety glasses with side-shields
Hand Protection	Protective gloves
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Red
odor	No information available
pH	4.0
Boiling Point/Range	No information available.
Melting Point/Range	No information available.
Flash Point	No information available.
Autoignition Temperature	No information available.
Specific Gravity	1.0
Molecular Formula	Solution

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions .

None under normal processing..

Conditions to Avoid

None known.

Incompatible Materials

None known.

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Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION
Information on Toxicological Effects
Acute Toxicity
Product Information

See actual entry in RTECS for complete information.

Component Information
Component

 1,2-Benzenedicarboxylic acid,
monopotassium salt
Mercuric chloride
Water

	LD50 Oral	LD50 Dermal	LC50 Inhalation
	3200 mg/kg (Rat)		
	1 mg/kg (Rat)	41 mg/kg (Rat)	
	90 mL/kg (Rat)		

Chronic Toxicity
Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization

No information available.

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Target Organs

None known.

Endocrine Disruptor Information

None known

12. ECOLOGICAL INFORMATION
Toxicity
Ecotoxicity effects

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

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12. ECOLOGICAL INFORMATION

Mercuric chloride		0.13-0.19 mg/L LC50 96 h 0.1-0.182 mg/L LC50 96 h 0.096-0.133 mg/L LC50 96 h 0.02-0.26 mg/L LC50 96 h 0.014-0.019 mg/L LC50 96 h 4.425 mg/L LC50 96 h 0.4 mg/L LC50 96 h 0.155 mg/L LC50 96 h 0.041 mg/L LC50 96 h 5.933-10.34 mg/L LC50 96 h		0.0015 mg/L EC50 = 48 h 0.012 mg/L EC50 > 48 h
Water	EC50: 13 mg/L 72h			

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Component	log Pow
Acid fuchsine	-6.46
Water	-1.87

Mobility in soil

No information available.

Results of PBT and vPvB assessment
Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS
Waste treatment methods
**Waste from Residues / Unused
Products**

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal

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14. TRANSPORT INFORMATION
IMDG/IMO Not regulated

ADR Not regulated

IATA Not regulated

15. REGULATORY INFORMATION
Safety, health and environmental regulations/legislation specific for the substance or mixture
International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
1,2-Benzenedicarboxylic acid, monopotassium salt	212-889-4	-		X	X	-	X	X	X	X	KE-02310 X
Acid fuchsine	221-816-5	-		X	X	-	X	X	X	X	-
Mercuric chloride	231-299-8	-		X	X	-	X	X	X	X	KE-23121 X
Water	231-791-2	-		X	X	-	X	-	X	X	X

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory Lists

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment
16. OTHER INFORMATION
Text of R phrases mentioned in Section 2-3

R28 - Very toxic if swallowed

R34 - Causes burns

R48/24/25 - Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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16. OTHER INFORMATION

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Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet