

SAFETY DATA SHEET

Creation Date 25-Oct-2004

Revision Date 05-Nov-2019

Revision Number 3

1. Identification **Product Name** Buffer solution pH 4 (phthalate) traceable to NIST AC383830000; AC383830010; AC383835000 Cat No. : **Synonyms** No information available **Recommended Use** Laboratory chemicals. Food, drug, pesticide or biocidal product use. Uses advised against Details of the supplier of the safety data sheet **Company** Acros Organics **Fisher Scientific** One Reagent Lane One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Emergency Telephone Number

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

	3. Composition/Information on Ingredients			
Г	Common ant		Mainh4 0/	
	Component	CAS-No	Weight %	

Water	7732-18-5	<=99
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	1
Mercuric chloride	7487-94-7	0.001

4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get med immediately if symptoms occur.				
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms and effects	None reasonably foreseeable.			
Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
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Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

None reasonably foreseeable.

Hazardous Combustion Products None known.

Protective Equipment and Precautions for Firefighters

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

NFPA

	Health 0	Flammability 0	Instability 0	Physical hazards N/A
		6. Accidental rel	ease measures	
Persona	I Precautions	Ensure adequate ventilatio	n. Use personal protective equ	ipment as required.

Environmental Precautions

Ensure adequate ventilation. Use personal protective equipment as requipment as requipment as requipment as requipment as requipment as requipment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Avoid ingestion and inhalation. Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.
Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Mercuric chloride	TWA: 0.025 mg/m ³	(Vacated) Ceiling: 0.1 mg/m ³	IDLH: 10 mg/m ³	TWA: 0.025 mg/m ³
	Skin		TWA: 0.05 mg/m ³	
			Ceiling: 0.1 mg/m ³	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

None under normal use conditions.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Liquid
Appearance	Clear
Odor	No information available
Odor Threshold	No information available
рН	4.0
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity							
Reactive Hazard		None known, base	None known, based on information available				
Stability		Stable.					
Conditions to Avoid	ł	Incompatible prod	ucts.				
Incompatible Materi	ials	Strong oxidizing a	gents				
-		ducts None under norma	-				
Hazardous Polymer			Hazardous polymerization does not occur.				
Hazardous Reaction		None under norma					
			-	c			
Acute Toxicity		11. LOXICO	ological ir	formation			
Product Information Oral LD50 Dermal LD50 Vapor LC50 Component Informa		Based on ATE dat Based on ATE dat	ta, the classifica ta, the classifica	not been fully investig ion criteria are not m ion criteria are not m ion criteria are not m	net. ATE > 2000 m net. ATE > 2000 m	g/kg.	
Componer		LD50 Oral		LD50 Dermal LC50		0 Inhalation	
Water 1,2-Benzenedicarbo monopotassiun		۔ LD50 > 3200 mg/kg(ا	 D50 > 3200 mg/kg (Rat) Not listed		N	- Not listed	
Mercuric chlo	ride	25.9 mg/kg (Rat) 1 mg/kg (Rat)		LD50 = 41 mg/kg (Rabbit) LD50 = 41 mg/kg (Rat)		Not listed	
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure_							
Irritation		No information ava	No information available				
Sensitization		No information ava	No information available				
Carcinogenicity		The table below in	idicates whether	each agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS-N	o IARC	NTP	ACGIH	OSHA	Mexico	
Water7732-18-51,2-Benzenedicarboxyl877-24-7ic acid,monopotassium salt			Not listed Not listed	Not listed	Not listed Not listed	Not listed Not listed	
Mercuric chloride	7487-94	-7 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects			No information available				
Reproductive Effect	ts	No information ava	No information available.				
Developmental Effe	cts	No information ava	No information available.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated ex		None known None known					
Aspiration hazard		No information ava	No information available				

Symptoms / effects, both acute and No information available delayed

Endocrine Disruptor Information No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Mercuric chloride	Not listed	LC50: 5.933 - 10.34 mg/L,	Not listed	EC50=0.0015mg/L 48 h
		96h static (Poecilia		EC50=0.012mg/L >48 h
		reticulata)		_
		LC50: = 0.041 mg/L, 96h		
		(Poecilia reticulata)		
		LC50: 0.1 - 0.182 mg/Ĺ, 96h		
		flow-through (Pimephales		
		promelas)		
		LC50: = 0.155 mg/L, 96h		
		(Pimephales promelas)		
		LC50: 0.096 - 0.133 mg/L,		
		96h static (Lepomis		
		macrochirus)		
		LC50: 0.014 - 0.019 mg/L,		
		96h flow-through		
		(Oncorhynchus mykiss)		
		LC50: 0.02 - 0.26 mg/L, 96h		
		static (Cyprinus carpio)		
		LC50: = 4.425 mg/L, 96h		
		(Cyprinus carpio)		
		LC50: = 0.4 mg/L, 96h		
		semi-static (Lepomis		
		· ·		
		macrochirus)		
		LC50: 0.13 - 0.19 mg/L, 96h		
		static (Oncorhynchus		
		mykiss)		
rsistence and Degrada	hility Missible wit	th water Persistence is unlikely	hand on informatio	a availabla

Bioaccumulation/Accumulation No information available.

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Mobility
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. Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT TDG IATA	Not regulated
_ <u>TDG</u>	Not regulated
IATA_	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

United States of America Inventory

	Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
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Water	7732-18-5	Х	ACTIVE	-
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	Х	ACTIVE	-
Mercuric chloride	7487-94-7	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Water	7732-18-5	Х	-	231-791-2	Х	Х	Х	Х	KE-35400
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	Х	-	212-889-4	Х	Х	Х	Х	KE-02310
Mercuric chloride	7487-94-7	Х	-	231-299-8	Х	Х	Х	Х	KE-23121

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Mercuric chloride	7487-94-7	0.001	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Mercuric chloride	-	-	Х	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Mercuric chloride	X		_

OSHA - Occupational Safety and	Not applicable
Health Administration	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component		Hazardous Substances RQs	CERCLA EHS RQs
Mercuric chloride		-	500 lb
Onlife main Dense and the OF	This was done.	a sustained the fallenging Description OF all	

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS-No	California F	Prop. 65	Prop	65 NSRL	Category	
Mercuric chloride	7487-94-7	Developm	velopmental -		Developmental		
U.S. State Right-to-Know							
Regulations							
Component	Massachusetts	New Jersey	Pennsylva	ania	Illinois	Rhode Island	
Water	-	-	Х		-	-	
Mercuric chloride	X	Х	Х		Х	-	

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available
	16. Other information
Prepared By	Regulatory Affairs

Thermo Fisher Scientific

	Email: EMSDS.RA@thermofisher.com
Creation Date	25-Oct-2004
Revision Date	05-Nov-2019
Print Date	05-Nov-2019
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS