

MATERIAL SAFETY DATA SHEET

Buffer solution pH 4 (phthalate), traceable to NIST, colored red

Section 1 - Chemical Product and Company Identification

MSDS Name:	Buffer solution pH 4 (phthalate), traceable to NIST, colored red
Catalog Numbers:	38384-0000, 38384-0010
Synonyms:	
Company Identification:	Acros Organics BVBA Janssen Pharmaceuticaaan 3a 2440 Geel, Belgium
Company Identification: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:	800-ACROS-01
For information in Europe, call:	+32 14 57 52 11
Emergency Number, Europe:	+32 14 57 52 99
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300
CHEMTREC Phone Number, Europe:	703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#	Hazard Symbols:	Risk Phrases:
877-24-7	Potassium hydrogen phthalate	1.02%	212-889-4		
3244-88-0	Fuchsin acid	0.0005%	221-816-5		
7487-94-7	Mercuric chloride	0.001%	231-299-8	T+ N	28 34 48/24/25 50/53
7732-18-5	Water	Balance	231-791-2		

Text for R-phrases: see Section 16

Hazard Symbols: None listed**Risk Phrases:** None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye:	May cause eye irritation.
Skin:	May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion:	May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation:	May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately.
Notes to Physician:	Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media:	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling:	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage:	Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 877-24-7:

CAS# 3244-88-0:

CAS# 7487-94-7:

Belgium - TWA: (mercury inorganic compounds): 0.025 mg/m³ VLE (as Hg)

France - VME: (mercury inorganic compounds): 0.1 mg/m³ VME (as Hg)

Germany: (mercury inorganic compounds): 0.1 mg/m³ VME (as Hg) Germany: (mercury inorganic compounds): skin notation

Malaysia: (mercury inorganic compounds): 0.025 mg/m³ TWA (as Hg)

Netherlands: (mercury inorganic compounds): 0.15 mg/m³ STEL Netherlands: (mercury inorganic compounds): 0.05 mg/m³ MAC

Russia: (mercury inorganic compounds): 0.005 mg/m³ TWA (aerosol, as Hg)

Spain: (mercury inorganic compounds): 0.025 mg/m³ VLA-ED (as Hg)

CAS# 7732-18-5:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: 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.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear red

Odor: odorless

pH: 4

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: Not available

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature: Not available

Solubility in water: Miscible

Specific Gravity/Density: 1.000

Molecular Formula:

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: Not available

Incompatibilities with Other Materials: Not available

Hazardous Decomposition Products: Not available

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 877-24-7: CZ4326000
CAS# 3244-88-0: DD4737000
CAS# 7487-94-7: OV9100000
CAS# 7732-18-5: ZC0110000

LD50/LC50: RTECS:
CAS# 877-24-7: Dermal, guinea pig: LD50 = >1 gm/kg;
Oral, rat: LD50 = >3200 mg/kg;

RTECS:
CAS# 3244-88-0:

RTECS:
CAS# 7487-94-7: Draize test, rabbit, eye: 50 ug/24H Severe;
Draize test, rabbit, skin: 500 mg/24H Severe;
Oral, mouse: LD50 = 6 mg/kg;
Oral, rat: LD50 = 1 mg/kg;
Skin, rat: LD50 = 41 mg/kg;

RTECS:
CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg;

Carcinogenicity: Potassium hydrogen phthalate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Fuchsin acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Mercuric chloride - IARC: Group 3 (not classifiable)
Water - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 877-24-7: Not available

CAS# 3244-88-0: Not available

CAS# 7487-94-7: 3

CAS# 7732-18-5: Not available

Canada

CAS# 877-24-7 is listed on Canada's DSL List

CAS# 3244-88-0 is listed on Canada's DSL List

CAS# 7487-94-7 is listed on Canada's DSL List

CAS# 7732-18-5 is listed on Canada's DSL List

US Federal

TSCA

CAS# 877-24-7 is listed on the TSCA Inventory.

CAS# 3244-88-0 is listed on the TSCA Inventory.

CAS# 7487-94-7 is listed on the TSCA Inventory.

CAS# 7732-18-5 is listed on the TSCA Inventory.

Section 16 - Other Information

Text for R-phrases from Section 2

R 28 Very toxic if swallowed.

R 34 Causes burns.

R 48/24/25 Toxic : danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

MSDS Creation Date: 11/08/2004

Revision #0 Date Original.

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