

SAFETY DATA SHEET

Phosphate Buffer, pH 6.0

Section 1 - Chemical Product and Company Identification

SDS Name: Phosphate Buffer, pH 6.0
Catalog Numbers: E-340-2, SO-916
Company Identification: ROWLEY BIOCHEMICAL
10 ELECTRONICS AVENUE
DANVERS, MA 01923
For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

HEALTH HAZARDS

H303 Acute Oral Toxicity: 5
H316 Skin Corrosion/Irritation: 3
H320 Eye damage/Irritation: 2B
H371 Specific Target Organ Toxicity (repeated exposure): 2

Pictograms:



Warning: May be harmful if swallowed.
Causes mild skin irritation.
Causes eye irritation.



Warning: May cause target organ damage

Precautionary Statement

P260 Do not breathe fume/gas/mist/vapors.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P312 Call a physician if you feel unwell.
P332 + P313 If skin irritation occurs, get medical advice/attention.
P337 + P313 If eye irritation persists, get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

| CAS# | Chemical Name | Percent |
|-----------|-----------------------------|----------|
| 7758-80-7 | Sodium Phosphate, monobasic | 0.19w/v |
| 7558-79-4 | Sodium Phosphate, dibasic | 0.03w/v |
| 7647-14-5 | Sodium Chloride | 0.8w/v |
| 89-83-8 | Thymol | <0.05w/v |
| 7732-18-5 | Water | 100v/v |

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Contact a physician if condition worsens.

Oral Exposure: If Swallowing seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

Extinguishing Media: Use water spray, dry chemical powder, or appropriate foam.

Flash Point: N/A

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear protective gear.

Methods for Cleaning up: Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped in a cool, well ventilated area. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear

pH: 6.0 +/- 0.10

Vapor Pressure: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Viscosity: N/A

Boiling Point: N/A

Section 10 - Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

Conditions to Avoid: Heat, freezing.

Incompatibilities with Other Materials: Reactive with oxidizing agents, acids.

Hazardous Decomposition Products: Products of degradation are less toxic than the product itself.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: WA1900000

LD50/LC50:

CAS# 7558-80-7:

Acute oral rat LD50: 8290 mg/kg.

Carcinogenicity:

CAS# 7558-80-7: Not listed by ACGIH, NTP, or CA Prop 65.

Carcinogenic Group: 3 (not classifiable for human.) by IARC.

Mutagenicity: Not Available

RTECS#:

LD50/LC50:

CAS# 7558-79-4:

Acute oral rat LD50: 17000 mg/kg.

Carcinogenicity:

CAS# 7558-79-4: Not listed by ACGIH, NTP, or CA Prop 65.

Carcinogenic Group: 3 (not classifiable for human.) by IARC.

Mutagenicity: Not Available

RTECS#:

LD50/LC50:

CAS# 7647-14-5:

Acute oral rat LD50: 3000 mg/kg.

Acute oral mouse LD50: 4000 mg/kg.

Acute oral human LD50: 1000 mg/kg.

Acute dermal rabbit LD50: 10000 mg/kg.

Carcinogenicity:

CAS# 7647-14-5: Not listed by ACGIH, NTP, or CA Prop 65.

Carcinogenic Group: 3 (not classifiable for human.) by IARC.

Mutagenicity: Not Available

RTECS#:

LD50/LC50:

CAS# 89-83-8:

Acute oral rat LD50: 980 mg/kg.

Acute oral mouse LD50: 640 mg/kg.

Acute oral guinea pig LD50: 880 mg/kg.

Carcinogenicity:

CAS# 89-83-8: Not listed by ACGIH, NTP, or CA Prop 65.

Carcinogenic Group: 3 (not classifiable for human.) by IARC.

Mutagenicity: Causes damage to the following organs: kidneys, liver, central nervous system.

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| Section 12 - Ecological Information |
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Ecotoxicity: No information available.

Environmental: No information available.

Physical: No information available.

Other: No information available.

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| Section 13 - Disposal Considerations |
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Appropriate method of disposal of substance or preparation:

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved waste facility.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European/International Regulations

European Labeling in Accordance with EC Directives

Risk Phrases:

R48/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R36/37/38 Irritating to eyes, skin and respiratory tract.

R42/43 May cause sensitization by inhalation and skin contact.

Safety Phrases:

S20/21 When using do not eat, drink or smoke

S2 Keep out of the reach of children.

S3 Keep in a cool place.

S7 Keep container tightly closed.

S9 Keep container in a well-ventilated place

Section 16 - Additional Information

MSDS Creation Date: 10/15/12

Revision #1. 4/14/2014 YM co-Sign RC

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