

# SAFETY DATA SHEET

## ACETATE BUFFER, pH 4.2

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Acetate Buffer, pH 4.2

**Catalog Numbers:** SO-638

**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

H315-Skin Corrosion/Skin Irritation: 2

H320-Eye damage/Irritation: 2B

##### PHYSICAL HAZARDS

H290-Corrosive to Metals: 1

##### ENVIRONMENTAL HAZARDS

Aquatic acute environmental Hazards: Not classified

Chronic environmental Hazards: Not classified

#### Pictograms or Hazard symbols and Hazard statement.



Warning: Causes skin irritation.  
Causes eye irritation.



Warning: May be corrosive to metals.

## Precautionary Statement

### H315

**P264**-Wash thoroughly after handling.

**P280**-Wear protective gloves.

**P302+P352**-IF ON SKIN: Wash with plenty of soap and water.

**P332+P313**-If skin irritation occurs: Get medical advice/attention.

**P362**-Take off contaminated clothing and wash before reuse

### H320

**P305+P351+P338**-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313**-If eye irritation persists: Get medical advice/attention.

### H290

**P234**-Keep only in original container.

**P390**-Absorb spillage to prevent material damage.

**P406**-Store in corrosive resistant/container with a resistant inner liner.

**WARNING!** Skin and eye **irritant**. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not breathe vapors; use with adequate ventilation. May be **corrosive** to metals. Keep only in original container.

## Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
64-19-7	Glacial Acetic Acid	0.1 v/v
127-09-3	Sodium Acetate Anhydrous	0.41 w/v
7732-18-5	Water	Balance

## 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.

**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 at room temperature. 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

**Odor:** vinegar-like

**pH:** 4.2

**water.**

**Vapor Pressure:** 2.3 kPa @ 20deg. C

**Vapor Density:** 0.62 (Air=1)

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** 100 deg. C

**Solubility:** 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:** Chromic Acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides, and phosphates.

**Hazardous Decomposition Products:** No information available.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:** AF1225000, AJ4300010

**LD50/LC50:**

CAS# 64-19-7:

Oral rat LD50: 3310 mg/kg.

Dermal rabbit LD50: 1.06 g/kg

Inhalation mouse LC50: 5620 ppm/1-hr

CAS# 127-09-3

Oral rat LD50: 3530 mg/kg / 4 hr

Dermal rabbit LD50: >10000 mg/kg / 4 hr

Inhalation rat LC50: >30000 mg/m / 1 hr

**Carcinogenicity:** CAS# 64-19-7, 127-09-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Solution may be irritating to the skin. Acetic acid is corrosive to skin. Solution may cause digestive tract irritation, may be moderately toxic if ingested. May cause irritation of respiratory tract. Chronic exposure to Acetic acid may produce target organ damage.

**Mutagenicity:** CAS# 64-19-7: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

**Reproductive Effects:** CAS# 64-19-7: May cause reproductive effects based on animal data (no human data found).

## Section 12 - Ecological Information

**Ecotoxicity:** 64-19-7: Goldfish, LC50: 423 mg/l - 24 hr  
Fathead Minnow, LC50: 88 ppm – 96 hr  
Bluegill Sunfish, LC50: 75 ppm – 96 hr  
Daphnia, LC50: >100 ppm – 96 hr

**Environmental:** No information available.

**Physical:** No information available.

**Other:** No information available.

## Section 13 - Disposal Considerations

**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:

R22 Harmful by inhalation, in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

#### Safety Phrases:

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

S2 Keep out of the reach of children.

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. CF 10/10/13**

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