

# SAFETY DATA SHEET

## ACETATE BUFFER, pH 8.0

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Acetate Buffer, pH 8.0

**Catalog Numbers:** SO-964

**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

H301-Acute Oral Toxicity: 3  
H332-Acute Inhalation Toxicity: 4  
H315-Skin Corrosion/Skin Irritation: 2  
H320-Eye damage/Irritation: 2A  
H317-Skin Dermal Sensitization: 1B  
H341-Germ Cell Mutagenicity: 2  
H350-Carcinogenicity: 1A  
H361-Reproductive Toxicity: 2  
H373-Specific Target Organ Toxicity: 2

##### PHYSICAL HAZARDS

Not Classified

##### ENVIRONMENTAL HAZARDS

Aquatic acute environmental Hazards: Not classified

Chronic environmental Hazards: Not classified

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



Danger: Toxic if swallowed.



Warning: Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.



Danger: May cause cancer.

Warning: Suspected of causing genetic defects.  
Suspected of damaging fertility or the unborn child. May cause damage to organs.

## Precautionary Statement

### H301

**P270** Do not eat, drink, or smoke when using this product.

**P264** Wash thoroughly after handling.

**P301 + P310** If swallowed, immediately call a physician.

**P330** Rinse mouth.

**P405** Store locked up.

### H332

**P261** Avoid breathing fumes/mist/vapors.

**P271** Use only outdoors or in a well-ventilated area.

**P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

**P312** Call a physician if you feel unwell.

### H315

**P280** Wear protective gloves, clothing, and eye and face protection.

**P302 + P352** If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

**P332 + P313** If skin irritation occurs, get medical advice/attention.

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

### H320

**P264** Wash thoroughly after handling.

**P305 + P351 + P338** If in eyes, rinse cautiously with water for several minutes.

**P337 + P313** If eye irritation persists, get medical advice/attention.

### H317

**P272** Contaminated work clothing should not be allowed out of the work place.

### H341+H350+H361

**P202** Do not handle until all safety precautions have been read and understood.

**P201** Obtain special instructions before use.

**P405** Store locked up.

### H373

**P314** Get medical advice/attention if you feel unwell.

**DANGER! Toxic** if swallowed, may be fatal. **Cancer suspect**. Harmful if inhaled or absorbed through skin. Causes **irritation** to skin, eyes and respiratory tract. Suspected of causing **genetic defects**. Suspected of damaging fertility or the unborn child. May cause damage to organs. Avoid all routes of exposure.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
50-00-0	Formaldehyde	0.5 v/v
127-09-3	Sodium Acetate Anhydrous	2.0 w/v
64-17-5	Methyl Alcohol (Preservative in formaldehyde)	
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:** Pungent. Suffocating. (Moderate.)

**pH:** 8.0

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#:** LP8925000, AJ4300010

**LD50/LC50:**

CAS# 50-00-0

Oral, Mouse LD50: 42 mg/kg

Inhalation, Mouse LC50: 454000 mg/m – 4 Hr

CAS# 64-17-5

Dermal, Rabbit LD50: 15800 mg/kg

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:** Classified A2 (suspected for human.) by ACGIH, 2A (probable for human.) by IARC [Formaldehyde].

**Epidemiology:** Formaldehyde may be corrosive to skin; causes skin irritation which can range from mild to severe with possible burns depending on the extent of exposure and concentration of solution. May be absorbed through the skin (permeator) with symptoms paralleling those of ingestion. Formaldehyde may be corrosive to the eyes and may cause severe eye irritation and burns dependent upon the extent of exposure and concentration of solution. Inhalation can cause irritation of the respiratory tract. Harmful if swallowed, potentially fatal. Repeated or prolonged exposure to the skin may cause contact dermatitis, both irritant and allergic.

**Mutagenicity:** Mutagenic for mammalian somatic cells [Formaldehyde, Methyl Alcohol]. Mutagenic for bacteria and/or yeast [Formaldehyde, Methyl Alcohol].

**Teratogenic Effects:** Classified possible for human [Methyl Alcohol].

**Reproductive Effects:** Few studies have been done on the adverse reproductive effects from exposure to Formaldehyde. Studies produced a weak association (limited evidence) between human female reproductive effects and occupational exposure.

## Section 12 - Ecological Information

**Ecotoxicity:** No information available.

**Environmental:** No information available.

**Physical:** No information available.

**Other:** Methanol in water is rapidly biodegraded and volatilized. Aquatic hydrolysis, oxidation, photolysis, adsorption to sediment, and bioconcentration are not significant fate processes. The half-life of methanol in surfactant water ranges from 24 hrs. to 168 hrs. Based on its vapor pressure, methanol exists almost entirely in the vapor phase in the ambient atmosphere. It is degraded by reaction with photochemically produced hydroxyl radicals and has an estimated half-life of 17.8 days. Methanol is physically removed from air by rain due to its solubility. Methanol can react with NO<sub>2</sub> in polluted to form methyl nitrate. The half-life of methanol in air ranges from 71 hrs. (3 days) to 713 hrs. (29.7 days) based on photooxidation half-life in air. (Methyl alcohol)

## 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 wasted 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:**

R20/21 Harmful by inhalation and in contact with skin  
R36/37 Irritating to eyes and respiratory system.  
R25 Toxic if swallowed  
R43 May cause sensitization by skin contact  
R45 May cause cancer  
R46 May cause heritable genetic damage

**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  
S24 Avoid contact with skin  
S25 Avoid contact with eyes

Section 16 - Additional Information
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**MSDS Creation Date:** 10/15/12

**Revision #1. CF 10/10/13**

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