

# SAFETY DATA SHEET

## ACETIC ACID, 50%

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Acetic Acid, 50%  
**Catalog Numbers:** SO-1025  
**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! Causes skin irritation. Causes eye irritation.** 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	50 v/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: 2; 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:** 1.97-2.17

**Vapor Pressure:** N/A

**Vapor Density:** 1.05

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** 118 C

**Solubility:** Infinitely soluble

## 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:** Carbon monoxide, irritating and toxic fumes.  
**Hazardous Polymerization:** Will not occur.

#### Section 11 - Toxicological Information

**RTECS#:**

**LD50/LC50:**

CAS# 64-19-7:

Oral rat LD50: 3310 mg/kg.

Skin: rabbit LD50: 1.06 g/kg

Inhalation mouse LC50: 5620 ppm/1-hr; investigated as a mutagen, reproductive effector.

**Carcinogenicity:**

CAS# 64-19-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

#### Section 12 - Ecological Information

**Ecotoxicity:**

**CAS# 64-19-7.** This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

**Environmental:** When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

**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 wasted facility.

#### Section 14 – Transport Information

**DOT**

Proper Shipping Name: Acetic Acid solution. (Corrosive)

Hazard class: 8

UN/NA: UN2790

Packing Group: 111

#### 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.  
S 7 Keep container tightly closed.  
S 9 Keep container in a well-ventilated place

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

**Revision #1. RC 8/20/13, CF 10/18/13**

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