

# SAFETY DATA SHEET

## PICRIC ACID-ACETONE 0.1%

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Picric Acid-Acetone 0.1%  
**Catalog Numbers:** A-105-6, A-108-9, SO-399  
**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  
H312: Acute Dermal Toxicity- Dermal: 4  
H315-Skin Corrosion/Skin Irritation: 2  
H318-Eye Damage/Irritation: 1  
H341-Germ Cell Mutagenicity: 2  
H373: Specific Target Organ Toxicity (Repeated Exposure): 2

#### Physical Hazards

H290-Corrosive to Metals: 1  
H225-Flammability: 2

#### Environmental Hazards

**Acute Aquatic Environmental Hazards:** Not Classified  
**Chronic Environmental Hazards:** Not Classified

#### Pictograms or Hazard Symbols and Hazard Statement



Warning: Causes skin irritation. Harmful in contact with skin.



Danger! Toxic if swallowed.



Warning! May be corrosive to metals.  
Danger: Causes serious eye damage



Warning! May cause damage to the following organs: mucuous membranes, blood, kidneys, eyes, skin and liver through repeated or prolonged exposure. Suspected of causing genetic defects

## **Precautionary Statement Prevention**

### H225

- P210** Keep away from heat, flames and hot surfaces. No smoking.
- P233** Keep container tightly closed.
- P241** Use explosive-proof equipment.
- P242** Use only non-sparking tools.
- P243** Take precautionary measures against static discharge.
- P280** Wear protective gloves, clothing, and eye and face protection.
- P303 + P361 + P353** If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.
- P370 + P378** In case of fire use ..... to extinguish.
- P403 + P235** Store in a well-ventilated place. Keep cool.
- P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H301

- P264** Wash thoroughly after handling.
- P270** Do not eat, drink, or smoke when using this product.
- P301 + P310** IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P330** Rinse Mouth.
- P405** Store locked up.
- P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H312+H315+H318

- 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

- P264**: Wash thoroughly after handling.
- 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

H373

**P260:** Do not breathe dust/fume/gas/ mist vapors/ spray.

**P314:** Get medical attention if you feel unwell.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
88-89-1	Picric Acid	0.1 w/v
67-64-1	Acetone	100%

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. If concerned, seek immediate medical advice.

**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:** CAS#: 88-89-1: Closed cup: 150°C (302°F).

**Auto-ignition Temperature:** CAS#: 88-89-1: 300°C (572°F)

**NFPA Rating:** (estimated) Health: 1; Flammability: 3; 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 and heat.

## 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:** Yellow

**Odor:** Acetone

**pH:** N/A

**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:** High temperatures, mechanical shock, ignition sources. An explosive mixture results when the aqueous solution crystallizes. Do not let dry picric acid (crystals) form in container or on the cap threads of container. Dry picric acid is explosive!

**Incompatibilities with Other Materials:** Highly reactive with metals, alkalis. Reactive with oxidizing agents, reducing agents. The product may undergo hazardous decomposition, condensation or polymerization, it may react violently with water to emit toxic gases or it may become self reactive under conditions of shock or increase in temperature or pressure.

**Hazardous Decomposition Products:** Will not occur.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:**TJ7875000

**LD50/LC50:**

CAS# 88-89-1: Acute oral toxicity (LD50): 200 mg/kg [Rat].

CAS# 67-64-1

Rat Oral: 5800 mg/kg

Mouse Oral: 3000 mg/kg

Rabbit Oral: 5340 mg/kg

LC50

Vapor Rat: 50100 mg/m 8 HR

Vapor Mouse 44000 mg/m 4 HR

**Carcinogenicity:**

CAS# 88-89-1, 3244-88-0 & 67-64-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Acute Potential Health Effects: Picric acid causes skin irritation and it may be absorbed through the skin. It has been shown to cause symptoms, when absorbed through the skin, similar to those when ingested. Will cause eye irritation and may result in corneal injury leading to blindness. Harmful if swallowed! May cause gastrointestinal tract irritation with abdominal pain, nausea, vomiting, and diarrhea. May affect behavior/central nervous system (vertigo, headache, stupor, tremor, convulsions), cardiovascular system, metabolism, kidneys/urinary system (anuria, oliguria, renal lesions, hemorrhagic nephritis), liver (acute hepatitis, jaundice). Chronic Potential Health Effects Picric acid: Prolonged or repeated skin contact may cause allergic or sensitization dermatitis. May cause conjunctivitis in the eyes, and may also cause yellow staining of the skin and eyes, and "yellow vision".

## Section 12 - Ecological Information

**CAS#** 88-89-1& 67-64-1

**Ecotoxicity:** No information available.

**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 wasted facility.

## Section 14 – Transport Information

### DOT

#### Domestic (Land, D.O.T.)

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**Proper Shipping Name:** ACETONE

**Hazard Class:** 3

**UN/NA:** UN1090

## 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:

R11 Highly flammable.

R21/22/48 Harmful in contact with skin, danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

R25 Toxic if swallowed.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

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

S16 Keep away from sources of ignition.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46 If swallowed, seek medical advice immediately and show this container or label.

## Section 16 - Additional Information

**MSDS Creation Date:** 10/15/12

**Revision #1. RC 11-4-14**

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