

# Safety Data Sheet

## Safranin O Solution, 0.1% in 0.1% Acetic Acid

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Safranin O Solution, 0.1% in 0.1% Acetic Acid

**Catalog Numbers:** G-481-6, O-911-6, SO-427

**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
477-73-6	Safranin O	0.1 w/v
64-19-7	Acetic Acid	0.1 v/v
7732-18-5	Water	99.9 v/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.

**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

**NFPA** HEALTH **1** FLAMMABILITY **0** REACTIVITY **0**

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. Water may be ineffective in fighting fire. Use water spray to keep for exposed containers cool.

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

**Flash Point:** N/A

**Auto ignition Temperature:** N/A

**Explosion Limits:** N/A

**Upper:** N/A

#### 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. Avoid contact with skin, eyes and clothing. Store at room temperature.

#### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Mechanical exhaust

**Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

#### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Red

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:** Use care when handling. Avoid contact with skin, eyes and clothing. Store at room temperature.

**Hazardous Decomposition Products:** not known

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:** CAS# 477-73-6:

**LD50/LC50:** Not available.

**Carcinogenicity:**

CAS# 477-73-6: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** No information available.

**Routes of exposure:** Multiple routes: May cause irritation, May be harmful by ingestion, or skin absorption.

**RTECS#:** CAS# 64-19-7:

**LD50/LC50:**

Oral LD50: 3310 mg/kg [rat]

Oral LD50 4960 mg/kg [mouse]

Dermal LD50 3530 mg/kg [rat]

Dermal LD50 1060 mg/kg [rabbit]

Vapor LC50 5620 ppm 1Hr [mouse]

**Carcinogenicity:**

CAS# 64-19-7: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** No information available.

**Routes of exposure:** Multiple routes: May cause irritation, May be harmful by ingestion, or skin absorption.

## Section 12 - Ecological Information

### **Ecotoxicity:**

CAS# 477-73-6 Safranin O: Not Available

CAS# 64-19-7 Glacial Acetic Acid:

(LC50) 423 mg/24 HR [Fish (Goldfish)]

88 ppm 96 HR [Fish (fathead minnow)]

75 ppm 96 HR [Fish (Bluegill Sunfish)]

>100 ppm 96 HR [Daphnia]

## 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:**

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:** 1/8/2010

**Revision #1** 4/28/14 YM/ MH 6/30/14

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