

27120 SW 95th Avenue  
 P.O. Box 570  
 Wilsonville, OR 97070-0570  
 USA  
 (503) 570-2500

2900 Simpson Road #1  
 Richmond, BC V6X 2P9  
 CANADA  
 (604) 270-0011

380 Jefferson Blvd., Unit A  
 Warwick, RI, 02886  
 USA  
 (401) 737-0593

915 Meyerside Drive  
 Mississauga, ON L5T 1R8  
 CANADA  
 (905) 564-1032

## MATERIAL SAFETY DATA SHEET

### EMERGENCY ASSISTANCE - 24 hour

For emergency assistance involving chemicals call CHEMTREC (800) 424-9300.

### SECTION 1: MATERIAL INFORMATION

**Common Name:** **SAFRANIN O COUNTERSTAIN**  
**Synonyms:** Gram Safranin; C. I. 50240 (Solution)  
**Catalog Number:** R5813, R5814, R5821, R5830, R5831, R5832, R5833  
**CAS #:** N/AV  
**WARNING:** COMBUSTIBLE, POISON

### SECTION 2: HAZARDOUS INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Chemical Family</u>	<u>Molecular Formula</u>	<u>Approximate Concentration</u>
Ethanol, denatured	64-17-5	Alcohol	C <sub>2</sub> H <sub>5</sub> OH	10%
Safranin	477-73-6	Basic Dye(s)	C <sub>19</sub> H <sub>19</sub> N <sub>4</sub> Cl	0.25%

### SECTION 3: PHYSICAL DATA

<b>Appearance:</b> Red liquid	<b>pH:</b> N/AV	<b>Vapor Density:</b> N/AV
<b>Boiling Point:</b> N/AV	<b>Solubility in Water:</b> Appreciable	<b>Flash Point:</b> 62°C (143°F) cc
<b>Melting Point:</b> N/AV	<b>Vapor Pressure:</b> N/AV	<b>Evaporation Rate:</b> N/AV
<b>Odor:</b> Alcohol	<b>Specific Gravity:</b> N/AV	

### SECTION 4: FIRE AND EXPLOSION HAZARD

**Flammable:** Yes: Combustible liquid

**Flammable Limits:**

Upper: N/AV      Lower: N/AV

**Extinguish Media:**

Water spray, carbon dioxide, dry chemical powder, "alcohol" or polymer foam.

**Special Hazards:**

Wear self-contained, positive-pressure breathing apparatus and full protective clothing.

**Unusual Fire and Explosion Hazards:**

None

### SECTION 5: REACTIVITY DATA

Stable:       Unstable:

**Conditions to Avoid:**

Heat, sparks, open flame

**Materials to Avoid:**

- Water -
- Acids -
- Bases -
- Corrosives -
- Oxidizers -
- Other:

**Hazardous Decomposition Products:**

Toxic fumes of carbon monoxide and carbon dioxide, nitrogen oxides, hydrogen chloride gas.

SECTION 6: HEALTH HAZARD DATA

To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

<u>Hazardous Component</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>TXDS</u>
Ethanol	10%	1000 ppm	N/AV
Safranin	0.25%	N/AV	N/AV

Effects of Overexposure (Acute and Chronic):

POISON

May be harmful by inhalation, ingestion or skin absorption, may cause headache, nausea and vomiting.

Carcinogenicity: These products do not contain carcinogens at 0.1% or greater.

First Aid Procedure:

Skin Contact: Flush with water. Wash with soap and water.

Eye Contact: Flush with water for 15 minutes. Seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen; seek medical attention.

Ingestion: Wash out mouth with water, seek medical attention.

In all cases of overexposure seek medical attention.

Wash contaminated clothing before reuse.

SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL

Steps to be taken if Material is Released or Spilled:

Ventilate area; using protective clothing and gloves, take up with absorbent. Wash spill site after material pick up is complete.

Waste Disposal Method:

Observe all local, provincial, state, and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Provide adequate general mechanical and local exhaust ventilation.

Avoid prolonged or repeated inhalation of vapor.

Protect eyes, skin, and clothing with safety goggles and gloves.


Wash thoroughly after handling.

SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS

Keep container closed. Protect against physical damage. Store in a cool, dry place.

SECTION 10: MSDS PREPARATION AND INFORMATION

Date Issued: 9/89  
 Current Revision: 3/05  
 Revised By: Gary Wicklund

Authorized Signature: 

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