

## Material Safety Data Sheet



# SAFRANIN, SATURATED ALCOHOLIC

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**Carolina Biological Supply Company**

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**CAROLINA**  
www.carolina.com

### Section 1 - Product Description

**Product Name:** Safranin, Saturated Alcoholic

**Product Code(s):** 88-6965

**Size:** 500 mL

**Chemical Name:** N/A

**CAS Number:** See Section 3

**Formula:** See Section 3

**Synonyms:** N/A

**Distributor:** Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 - Hazard Identification

**Emergency Overview:** Danger of cumulative effects. Irritating to eyes and respiratory system. Non-Hazardous under normal use.

**Potential Health Effects:**

**Eyes:** May cause irritation.

**Skin:** Irritating to skin.

**Ingestion:** Harmful if swallowed.

**Inhalation:** Irritating to respiratory system.

### Section 3 - Composition / Information on Ingredients

**Principal Hazardous Components:** Hexane (Denaturant) (CAS #110-54-3) .95%; Methyl isobutyl ketone (Denaturant) (CAS# 108-10-1; Ethyl alcohol (CAS# 64-17-5) 91.75%; Safranin (CAS# 477-73-6) 3.5%

**TLV units:** (Hexane) ACGIH-TLV 50 ppm (TWA)

(Methyl isobutyl ketone) ACGIH-TLV 50 ppm (TWA); (STEL) 75 ppm

(Ethyl alcohol) ACGIH-TLV 1,000 ppm (TWA)

**PEL units:** (Hexane) OSHA-PEL 50 ppm (TWA)

(Methyl isobutyl ketone) N/A

(Ethyl Alcohol) OSHA-PEL 1,000 ppm (TWA)

### Section 4 - First Aid Measures

**Emergency and First Aid Procedures:**

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

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

**Ingestion** - If swallowed, seek medical advice immediately and show this container or label.

**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## Section 5 - Firefighting Procedures

**Flash Point (Method Used):** 13.1 °C (Ethyl alcohol) (cc)

**NFPA Rating:**

**Health:** 0

**Fire:** 3

**Reactivity:** 0

**Extinguisher Media:** Use dry chemical, CO<sub>2</sub> or appropriate foam.

**Flammable Limits in Air % by Volume:** (Ethyl alcohol) LEL 3.3% (Ethyl Alcohol) UEL 19%

**Autoignition Temperature:** (Ethyl Alcohol) 423 °C

**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Extremely flammable.

Vapours may travel back to ignition source. Closed Containers exposed to heat may explode.

## Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## Section 7 - Special Precautions

**Precautions to Take in Handling or Storing:** This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame.

Bond and ground containers when transferring liquid. Keep away from oxidizing materials and strong acids.

## Section 8 - Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:**

**Local Exhaust:** Yes

**Mechanical(General):** Yes

**Special:** No

**Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.

**Eye Protection:** Splash proof chemical safety goggles should be worn.

**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

## Section 9 - Physical Data

**Molecular Weight:** N/A

**Boiling Point:** N/A

**Vapor Density(Air=1):** N/A

**Percent Volatile by Volume:** 100%

**Solubility in Water:** Soluble

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** < 1

**Evaporation Rate (BuAc=1):** >1

**Appearance and Odor:** Clear liquid, fruity odor.

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat and sources of ignition.

Keep away from sources of ignition - No smoking.

**Incompatibility (Materials to Avoid):** Oxidizers,

**Hazardous Decomposition Products:** CO<sub>x</sub>,

**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** (Hexane) orl-rat LD50 28.710 mg/kg; ihl-hmn TCLo 5.000 ppm/10M

(Methyl isobutyl ketone) orl-rat LD50 5.080 mg/kg; ihl-rat LC50 8.000 ppm/4H

(Ethyl alcohol) orl-rat LD50 7.060 mg/kg; ihl-rat LC50 20,000 ppm/10H

Exposure to concentrations over 1,000 ppm may cause headache, irritation of the eyes, nose, and throat, and if continued for an hour, drowsiness and lassitude, loss of appetite and inability to concentrate may occur.

To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated. Data is listed for individual components.

**Effects of Overexposure:**

**Acute:** See Section 2

**Chronic:** Tumorigenic data cited. Reproductive data cited. Mutation data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

**Conditions Aggravated by Overexposure:** Liver disorders, Eye disorders, Skin disorders, Respiratory disorders,

**Target Organs:** Eyes, Skin, Respiratory system,

**Primary Route(s) of Entry:** Inhalation and ingestion.

## Section 12 - Ecological Data

**EPA Waste Numbers:** Methyl isobutyl ketone (U161) is considered a hazardous waste if and when it is discarded.

## Section 13 - Disposal Information

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## Section 14 - Transport Information

**DOT Proper Shipping Name:** Required label (s): FLAMMABLE LIQUID

UN1170, Ethyl Alcohol solutions: 3, II

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Acute

**Name List:**

Safranin - No

Hexane - No

Methyl isobutyl ketone - Yes

Ethyl alcohol - No

**Chemical Category:**

Safranin - No

Hexane - No

Methyl isobutyl ketone - No

Ethyl alcohol - No

**CERCLA Section 103 RQ(lb.):** Safranin - No

Hexane - No

Methyl isobutyl ketone - 5000 lbs

Ethyl alcohol - No

**RCRA Section 261.33:** Safranin - No

Hexane - No

Methyl isobutyl ketone - Yes

Ethyl alcohol - No

## Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information

to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

#### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act