#### Safranin O



## Section 1 Product Description

Product Name: Safranin O

Recommended Use: Science education applications

Synonyms: Basic Red 2, CI 50240, 2,8-Dimethylphenosafranine, Safranin T

**Distributor:** Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;





Causes serious eye damage.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 1

Acute Toxicity Oral Contains
Acute Toxicity Dermal Contains
Acute Toxicity Inhalation Gas

100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

Acute Toxicity Inhalation Vapor 100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

Acute Toxicity Inhalation Dust/Mist 100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

## Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Safranin O
 477-73-6
 100

#### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

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

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

**Skin Contact:** After contact with skin, wash immediately with plenty of water.

**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

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Hazardous Combustion Products: Nitrogen containing gases, Carbon dioxide, Carbon monoxide, Hydrogen chloride

#### Section 6

#### **Spill or Leak Procedures**

Steps to Take in Case Material Is

Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

#### Section 7

## **Handling and Storage**

Handling: Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/vapor. Do not get

in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution.

**Storage:** Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

#### Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Safranin O
 N/A
 N/A
 N/A
 N/A

**Control Parameters** 

**Eye Protection:** 

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

**Respirator Type(s):**None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

#### Section 9

## **Physical Data**

Formula: C20H19N4Cl Molecular Weight: 350.88 Appearance: Dark Red Solid

Odor: No data.

Odor Threshold: No data available

pH: No data available

Melting Point: No data available Boiling Point: No data available

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available

Solubility in Water: Soluble Log Pow (calculated): -1.35

Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

#### Section 10

## **Reactivity Data**

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Dusting.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Hydrogen chloride, Carbon monoxide, Carbon dioxide, Nitrogen containing gases

Hazardous Polymerization: Will not occur

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Section 11 Toxicity Data

**Routes of Entry** Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Eye disorders

Delayed Effects: No data available

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Safranin O477-73-6Not determinedNot determinedNot determined

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available477-73-6Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: No information available Chronic: No information available

Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

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Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for ground transport by US DOT Not regulated for air transport by IATA.

Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Safranin O 477-73-6 No No No No No 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.

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

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