



# Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

**MATERIAL SAFETY DATA SHEET**

Savgan Heights ; 102 ,B Wing ; R.T.D. Lane ,Andheri (West) Mumbai - 400053 , INDIA

**MSDS**

## Section 1 - Chemical Product and Company Identification

**Product Name : SAFRANINE**

**Synonyms:** CI 50240; basic red 2

**CAS No.:** 477-73-6

**Molecular Weight:** 350.85

**Chemical Formula:**  $C_{20}H_{19}N_4Cl$

## Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Safranin O	477-73-6	90 - 100%	Yes

## Section 3 - Hazardous Identification

### Emergency Overview

**WARNING! CAUSES IRRITATION TO EYES AND SKIN.**

**SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)**

Health Rating: 1 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 0 - None

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Green (General Storage)

### Potential Health Effects

Information on the human health effects from exposure to this substance is limited.

**Inhalation:**

No information found, but compound should be handled as a potential health hazard.

**Ingestion:**

No information found, but compound should be handled as a potential health hazard.

**Skin Contact:**

Causes irritation to skin. Symptoms include redness, itching, and pain.

**Eye Contact:**

Causes irritation, redness, and pain.

**Chronic Exposure:**

No information found.

**Aggravation of Pre-existing Conditions:**

No information found.

## Section 4 - First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## Section 5 - Fire Fighting Measures

**Fire:**

Not considered to be a fire hazard.

**Explosion:**

Not considered to be an explosion hazard.

**Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## Section 7 - Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## Section 8 - Exposure Controls, Personal Protection

### **Airborne Exposure Limits:**

None established.

### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### **Personal Respirators (NIOSH Approved):**

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear protective gloves and clean body-covering clothing.

### **Eye Protection:**

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

## Section 9 - Physical and Chemical Properties

### **Appearance:**

Dark rusty crystals or dark green powder.

**Odor:** Odorless.

### **Solubility:**

Soluble in water.

### **Specific Gravity:**

No information found.

### **pH:**

No information found.

### **% Volatiles by volume @ 21C (70F):**

0

### **Boiling Point:**

No information found.

### **Melting Point:**

No information found.

### **Vapor Density (Air=1):**

No information found.

### **Vapor Pressure (mm Hg):** No

information found.

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

No information found.

## Section 10 - Stability and Reactivity

### **Stability:**

Stable under ordinary conditions of use and storage.

### **Hazardous Decomposition Products:**

May produce carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen chloride when heated to decomposition.

### **Hazardous Polymerization:**

Will not occur.

### **Incompatibilities:**

No information found.

### **Conditions to Avoid:**

No information found.

## Section 11 - Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

Investigated as a mutagen.

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Safranine O (477-73-6)	No	No	None

## Section 12 - Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

## Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## Section 14 - Transport Information

**Not Regulated**

## Section 15 - Regulatory Information

Ingredient	-----\Chemical Inventory Status - Part 1\----- TSCA EC Japan Australia			
Safranine O (477-73-6)	Yes	Yes	Yes	Yes

Ingredient	-----\Chemical Inventory Status - Part 2\----- --Canada-- Korea DSL NDSL Phil.			
Safranine O (477-73-6)	Yes	Yes	No	Yes

Ingredient	-----\Federal, State & International Regulations - Part 1\----- -SARA 302- -----SARA 313----- RQ TPQ List Chemical Catg.			
Safranine O (477-73-6)	No	No	No	No

Ingredient	-----\Federal, State & International Regulations - Part 2\----- -RCRA- -TSCA- CERCLA 261.33 8(d)		
Safranine O (477-73-6)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No  
Reactivity: No (Pure / Solid)

## Section 16 - Additional Information

**NFPA Ratings:** Health: **1** Flammability: **0** Reactivity: **0**

**Label Hazard Warning:**

WARNING! CAUSES IRRITATION TO EYES AND SKIN.

**Label Precautions:**

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

**Label First Aid:**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

No Changes.