## MATERIAL SAFETY DATA SHEET

### SECTION I  NAME

**Product**  Safranin O  
**Chemical Synonyms**  Safranin O, Biological Stain  
**Formula**  C₂₀H₁₈N₄Cl  
**Unit Size**  up to 2.5 Kg.  
**C.A.S. No.**  477-73-5

### SECTION II  INGREDIENTS OF MIXTURES

**Principal Component(s)**  Safranin O, Powder  
%  100%  
**TLV Units**  None established.

### SECTION III  PHYSICAL DATA

**Melting Point (°F)**  N/A  
**Boiling Point (°F)**  Decomposes.  
**Vapor Pressure (mm Hg)**  Negligible.  
**Vapor Density (Air=1)**  Negligible.  
**Solubility in Water**  Soluble.  
**Appearance & Odor**  Dark red-brown powder; no odor.

### SECTION IV  FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used)**  Not applicable.  
**Flammable Limits in Air % by Volume**  N/A

### SECTION V  HEALTH HAZARD DATA

**Threshold Limited Value**  None established. Nuisance particulates: 10mg/m³ total dust.

### Effects of Overexposure

May be harmful by inhalation, ingestion or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards. Target organs: None known.

### Emergency and First Aid Procedures

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### SECTION VI  REACTIVITY DATA

**Stability**  Unstable  
**Conditions to Avoid**  Protect from light. Excessive temperature and heat.

### SECTION VII  SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled**  Carefully sweep up, avoid making dust and place in a suitable container for proper disposal. Scrub spill area with detergent and flush with copious amounts of water.

### Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator or contract with a licensed waste disposal agency.

### SECTION VIII  SPECIAL PROTECTION INFORMATION

**Respiratory Protection (Specify Type)**  None should be needed in normal laboratory use. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or respirator.  
**Ventilation**  Local Exhaust Recommended. Special No. Mechanical (General) Recommended. Other No.  
**Protective Gloves**  Rubber. Eye Protection Chemical safety glasses.  
**Other Protective Equipment**  Goggles, smock, apron, proper gloves, ventilation hood, eye wash station.

### SECTION IX  SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing**  Keep container tightly closed when not in use.

**Other Precautions**  Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid contact with skin and eyes. Avoid breathing dust. Use adequate ventilation. Remove and wash contaminated clothing.

**Revision No.**  6  
**Date**  01/01/07  
**Approved**  James A. Bertsch  
**Chemical Safety Coordinator**  JAB

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