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## MATERIAL SAFETY DATA SHEET (MSDS)

### SUDAN IV (FOR MICROSCOPY) (C. I. NO 26105)

#### 1. Product Identification

**Synonyms:** Oil red; 2-Naphthalenol, 1-[[2-methyl-4-[(2-methylphenyl)azo]phenyl]azo]-  
**CAS No.:** 85-83-6

Product Coad: S0199200100

**Molecular Weight:** 380.45  
**Chemical Formula:** C<sub>24</sub>H<sub>20</sub>ON<sub>4</sub>

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sudan IV	85-83-6	90 - 100%	Yes

#### 3. Hazards Identification

**Emergency Overview** **WARNING! IRRITANT. CAUSES IRRITATION TO EYES, RESPIRATORY SYSTEM AND SKIN. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. HANDLE IN A FUME HOOD. THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN THOROUGHLY INVESTIGATED.** **Inhalation:** Irritation of mucous membranes.

**Ingestion:** Stomach pains vomiting, diarrhea. **Skin Contact:** Irritation, May be absorbed through the skin with possible systemic effects. **Eye Contact:** Irritation, with discomfort, tearing.

#### 4. First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. **Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thorough cleansing of the entire contaminated area of the body including scalp and nails is of the utmost importance. **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

#### 5. Fire Fighting Measures

**Fire:** Not expected to be a fire hazard. **Explosion:** Emits toxic fumes under fire conditions.

**Fire Extinguishing Media:** Use water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Special Information:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. The protective clothing should prevent contact with skin and eyes.

#### 6. Accidental Release Measures

Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Wear disposable coveralls and discard them after use. Sweep up, place in a bag, and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete

#### 7. Handling and Storage

Keep container tightly closed. Store in cool, dry, well-ventilated area away from heat, sparks, or flame. Handling operations should be conducted in a chemical fume hood. Do not add any other material to the container. Do not wash down the drain. Do not allow smoking and food consumption while handling. Do not get in eyes, on skin, or on clothing. Wash thoroughly after use. Since empty container retains product residue, follow label warnings even after container is empty.

#### 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 **Personal Respirators (NIOSH Approved):** For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres. **Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:** Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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**MATERIAL SAFETY DATA SHEET (MSDS)****SUDAN IV (FOR MICROSCOPY) (C. I. NO 26105)****9. Physical and Chemical Properties**

**Appearance:** Dark brown Crystalline solid. **Odor:** No information found. **Solubility:** Negligible (< 0.1%)

**10. Stability and Reactivity**

**Stability:** Stable under ordinary conditions of use and storage. **Hazardous Decomposition Products:** Oxides of nitrogen, carbon monoxide, carbon dioxide. **Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Strong oxidizing agents. **Conditions to Avoid:** Heat, dusting, moisture.

**11. Toxicological Information**

Investigated as a tumorigen and mutagen.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Sudan IV (85-83-6)	No	No	3

**12. Ecological Information**

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

**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.

**14. Transport Information**

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

**15. REGULATORY**

SARA Title III: N/A

Federal Regulatory: N/A

**16. Other Information**

**NFPA Ratings:** Health: 2 Flammability: 1 Reactivity: 0

**Label Hazard Warning:** WARNING! IRRITANT. CAUSES IRRITATION TO EYES, RESPIRATORY SYSTEM AND SKIN. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. HANDLE IN A FUME HOOD. THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN THOROUGHLY INVESTIGATED. **Label Precautions:** Avoid ALL contact. Avoid breathing dust. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling. In case of fire, use appropriate foam, dry chemical, or carbon dioxide. In case of spill, sweep up and remove. Flush spill area with water.

**Label First Aid:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Product Use:** Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**