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SUDAN II

Material Safety Data Sheet

1.PRODUCT IDENTIFICATION:

Synonyms: C.I. 12140, 1-(2,4 Dimethylphenylazo)-2-naphthol, Solvent Orange 7,

Sudan Orange RR

Formula CAS No.: 3118-97-6

Molecular Weight: 276.34

Chemical Formula: C₁₈H₁₆N₂O

2. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
Sudan II	3118-97-6	100.0 %	No

3. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Brownish-orange to bordeaux crystals. **Caution!** May cause irritation. The toxicological properties of this material have not been fully investigated. May cause adverse reproductive effects based upon animal studies.

Target Organs: None known.

Potential Health Effects

Eyes: May cause eye irritation.

Skin: May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion: The toxicological properties of this substance have not been fully investigated.

Inhalation: The toxicological properties of this substance have not been full investigated. Inhalation of dust may cause respiratory tract irritation.

Chronic: No information found.

4. FIRST AID MEASURES:

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Get medical aid. Remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES:

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: Health: 1; Flammability: 0; Reactivity: 0.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective gear as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA Finals PELs</u>
Sudan II	None listed	None listed	None listed

OSHA Vacated PELs: Sudan II: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Crystals

Appearance: Brownish-orange to bordeaux.

Odor: No information found.

pH: 7.0 - 9.5 (1% solution in distilled water).

Solubility: Insoluble in water, moderately soluble in mineral oil, butyl acetate, and benzene. Soluble in turpentine, stearic acid, toluene and xylene.

Boiling Point: No information found.

Vapor Density (Air=1): No information found.

Freezing/Melting Point: 156 - 158 Deg. C

Vapor Pressure (mm Hg): No information found.

Specific Gravity: No information found.
Viscosity: No information found.
Evaporation Rate: No information found.
Decomposition Temperature: No information found.

10 STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, dust generation, strong oxidants.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION:

RTECS#: CAS# 3118-97-6:QL5850000
LD50/LC50: Not available.
Carcinogenicity: CAS# 3118-97-6;
IARC: Group 3 carcinogen.
Epidemiology: not available.
Teratogenicity: Not available.
Reproductive Effects: Experimental reproductive effects have been observed.
Neurotoxicity: Not available.
Mutagenicity: Not available.
Other Studies: Not available.

12. ECOLOGICAL STUDIES:

No information available.

13 DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. TRANSPORT INFORMATION:

No information available.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA: CAS# 3118-97-6 is listed on the TSCA inventory.
Health and Safety Reporting List: None of the chemicals are on the Health and Safety Reporting List.
Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.
Section 12b: None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.
SARA
Section 302 (RQ) and Section 302 (TPQ): None of the chemicals in this product have an RQ or a TPQ.

Section 313: This material contains Sudan II (CAS# 3118-97-9, 100%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of these chemicals in this product are considered highly hazardous by OSHA.

STATE: CAS# 318-97-6 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN / INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk phrases: R 33 Danger of cumulative effects.

Safety phrases: S 45 In case of accident, or if you feel unwell, seek medical advise immediately (show label where possible).

WGK (Water Danger/Protection) CAS# 3118-97-6: No information available.

Canada DSL/NDSL List CAS# 3118-97-6 is listed on Canada's DSL list.

Canada WHMIS: WHMIS - Not available.

Canadian Ingredient Disclosure List

Exposure Limits

16. DISCLAIMER INFORMATION:

DISCLAIMER:

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