Material Safety Data Sheet
City University of Hong Kong

MSDS                              SUDAN III 0479

PRODUCT INFORMATION

Chemical name(s): SUDAN III
Chinese Name: 蘇丹 III
Synonyms:
  - Oil red; oil scarlet; CI 26100; Solvent Red 23; Sudan Red III; 2-naphthalenol, 1-((4-phenylazo) phenyl)azo-

CAS No: 85-86-9
Molecular Weight: 352.42
Chemical Formula: C_{22}H_{16}N_{4}O

RISK SYMBOL

PHYSICAL DATA

Appearance: Reddish-brown powder.
Boiling Point: No information found.
Odor: No information found.
Melting Point: 199°C (390°F) Decomposes.
Solubility: Insoluble in water.
Vapor Density (Air=1): No information found.
Specific Gravity: No information found.
Vapor Pressure (mm Hg): No information found.
pH: No information found.
Evaporation Rate (BuAc=1): No information found.
% Volatiles by volume @ 21°C (70°F): 0

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FIRE AND EXPLOSION DATA
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Fire:
As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion:
Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.
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.

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REACTIVITY DATA
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Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.
Hazardous Polymerization: Will not occur.
Incompatibilities: Strong oxidizers.
Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

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HEALTH HAZARD DATA
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Emergency Overview
As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Potential Health Effects
Inhalation: No adverse health effects expected from inhalation.
Ingestion: Large doses may cause gastro-intestinal upset.
Skin Contact: No adverse effects expected.
Eye Contact: No adverse effects expected.
Chronic Exposure: No information found.
Aggravation of Pre-existing Conditions: No information found.

FIRST AID MEASURES

Inhalation:
Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, give water to drink and get medical advice.
Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.
Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

PREVENTATIVE MEASURES

Airborne Exposure Limits: None established.
Ventilation System: Not expected to require any special ventilation.
Personal Respirators (NIOSH Approved): Not expected to require personal respirator usage.
Skin Protection: Wear protective gloves and clean body-covering clothing.
Eye Protection: Use chemical safety goggles.
Other Control Measures:
There is insufficient data in the published literature to assign complete numerical SAF-T-DATA* ratings and laboratory protective equipment for this product. Special precautions must be used in storage, use and handling. Protective equipment for laboratory bench use should be chosen using professional judgment based on the size and type of reaction or test to be conducted and the available ventilation, with overriding consideration to minimize contact with the chemical.

Handling and Storage:
Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. 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.

ENVIRONMENTAL PROTECTION DATA

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.