

MATERIAL SAFETY DATA SHEET

Date Printed: 08/13/2008

Date Updated: 03/13/2007

Version 1.8

Section 1 - Product and Company Information

Product Name SUDAN IV
 Product Number S8756
 Brand SIGMA

Company Sigma-Aldrich
 Address 3050 Spruce Street
 SAINT LOUIS MO 63103 US

Technical Phone: 800-325-5832
 Fax: 800-325-5052
 Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313 No
1-((4-(o-tolylazo)-o-tolyl)azo)-2-Naphthol	85-83-6	No

Formula C₂₄H₂₀N₄O

Synonyms Biebrich Scarlet BPC * Biebrich Scarlet Red * Biebrich Scarlet R medicinal * Brasilazina Oil Red B * Calco Oil Red D * Candle Scarlet B * Candle Scarlet 2B * Candle Scarlet G * Ceres Red BB * Cerotine Ponceau 3B * Cerven rozpoustedlova 24 (Czech) * C.I. 258 * C.I. 26105 * C.I. Solvent Red 24 * 2',3-Dimethyl-4-(2-hydroxynaphthylazo)azobenzene * Dispersol Red PP * Enial Red IV * Fast Oil Red B * Fast Red BB * Fat Ponceau R * Fat Red B * Fat Red 2B * Fat Red BB * Fat Red BS * Fat Red TS * Grasal Brilliant Red B * Grasan Brilliant Red B * Hidaco Oil Red * Lacquer Red V * Lacquer Red VS * Lipid Crimson * 1-((2-Methyl-4-((2-methylphenyl)azo)phenyl)azo)-2-naphthalenol * Oil Red IV * Oil Red 3 * Oil Red 7 * Oil Red 47 * Oil Red 282 * Oil Red A * Oil Red APT * Oil Red 2B * Oil Red 3B * Oil Red BB * Oil Red 4B * Oil Red BS * Oil Red D * Oil Red ED * Oil Red F * Oil Red GO * Oil Red PEL * Oil Red RC * Oil Red RR * Oil Red S * Oil Red TAX * Oil Red ZD * Oil Scarlet * Oil Scarlet 48 * Oleal Red BB * Organol Red B * Orient Oil Red RR * Phenoplaste Organol Red B * Plastroresin Red F * Red 3R soluble IN grease * Resinol Red 2B * Rubrum scarlatinum * Resoform Red G * Sarlach R (Czech) * Scarlet Red * Scarlet red, biebrich * Scarlet R (michaelis) * Scharlachrot * Schultz No. 541 * Silotras Red T3B * Somalia Red IV * Stearix Red 4B * Stearix Red 4S * Sudan IV * Sudan P * Sudan Red IV * Sudan Red 4BA * Sudan Red BB * Sudan Red BBA * Tertrogras Red N * o-Tolueneazo-o-tolueneazo-beta-naphthol * o-T

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Irritant.
Irritating to eyes and skin.
Target organ(s): Liver.

HMIS RATING

HEALTH: 2*
FLAMMABILITY: 0
REACTIVITY: 0

NFPA RATING

HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Liver.

SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: Stomach pains, vomiting, diarrhea.

CHRONIC EXPOSURE - CARCINOGEN

Species: Rat

Route of Application: Subcutaneous

Dose: 512 MG/KG

Exposure Time: 58W

Frequency: C

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

IARC CARCINOGEN LIST

Rating: Group 3

CHRONIC EXPOSURE - MUTAGEN

Species: Hamster

Dose: 100 MG/L

Cell Type: Embryo

Mutation test: Morphological transformation.

Mutation test: Histidine reversion (Ames)

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xi
Indication of Danger: Irritant.
R: 36/38
Risk Statements: Irritating to eyes and skin.
S: 26-36
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.
Risk Statements: Irritating to eyes and skin.
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.
US Statements: Target organ(s): Liver.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No
TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.