

Material Safety Data Sheet



SUDAN IV FAT STAIN

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Sudan IV Fat Stain

Product Code(s): 89-2993, 89-2995, 88-2285, 89-2281, 20-2500, 20-2501, 20-6078, 84-1131, B6080, C71106

Size: 120 mL, 500 mL

Chemical Name: Mixture

CAS Number: See Section 3

Formula: See Section 3

Synonyms: N/A

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Irritating to eyes and respiratory system. Harmful if inhaled or swallowed.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Sudan IV (CAS#85-83-6) .05%; Hexane (denaturant)(cas#110-54-3) .35%; Methyl isobutyl ketone (denaturant)(cas#108-10-1)1; Ethyl alcohol (cas#64-17-5) 33.25%; Acetone (cas#67-64-1) 50%

TLV units: Hexane: ACGIH-TLV 50 ppm (TWA)

Methyl isobutyl ketone: ACGIH-TLV 50 ppm TWA, 75 ppm STEL

Ethyl alcohol: ACGIH-TLV 1,000 ppm TWA

Acetone: ACGIH-TLV 500ppm TWA, 750ppm STEL

PEL units: Hexane: OSHA-PEL 500 ppm TWA

Methyl isobutyl ketone: OSHA-PEL 100 ppm TWA

Ethyl alcohol: OSHA-PEL 1000 ppm TWA

Acetone: OSHA-PEL 1000ppm TWA

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): Acetone 0°F(CC); Ethanol 55°C(CC)

NEPA Rating:

Health: 1

Fire: 3

Reactivity: 0

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: Ethyl alcohol: LEL-3.3% Acetone: LEL-2.15% Ethyl alcohol: UEL-19% Acetone: UEL-13%

Autoignition Temperature: Acetone: 465 °C; Ethyl alcohol: 362.7 °C

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Vapours may travel back to ignition source. Closed Containers exposed to heat may explode.

Fire or excessive heat may produce hazardous decomposition products.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Bond and ground containers when transferring liquid.

This material should be kept in an area suitable for the storage of flammable liquids.

Keep container tightly closed in a cool, well-ventilated place. Keep away from oxidizing materials and strong acids.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: N/A

Boiling Point: N/A

Vapor Density(Air=1): > 1

Percent Volatile by Volume: > 99%

Solubility in Water: Soluble

Melting Point: N/A

Vapor Pressure: N/A

Specific Gravity (H₂O=1): N/A

Evaporation Rate (BuAc=1): > 1

Appearance and Odor: Dark Red liquid with alcohol odor

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Acids, Alkalis, Oxidizers,

Hazardous Decomposition Products: CO_x,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: Hexane: orl-rat LD50 28,710 mg/kg

Methyl isobutyl ketone: orl-rat LD50 2,080 mg/kg

Ethyl alcohol: orl-rat LD50 7,060 mg/kg

Acetone: orl-rat LD50 1,800 mg/kg

Mixture have not been thoroughly evaluated. Data is listed for individual components.

Effects of Overexposure:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. Reproductive data cited. Mutation data cited.

Conditions Aggravated by Overexposure: Liver disorders, Impaired Kidney Function, Skin disorders, Eye disorders,

Target Organs: Liver, Kidneys, Skin, Eyes,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: Acetone U002, Methyl isobutyl ketone U161

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1993, Flammable liquid, n.o.s. (acetone, ethanol, Methyl isobutyl ketone, 3, II

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Fire Acute

Name List:

Chemical Category:

Sudan IV - No
Hexane - No
Methyl isobutyl ketone - Yes
Ethyl alcohol - No
Acetone - Yes

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Hexane - No
Methyl isobutyl ketone - No
Ethyl alcohol - No
Acetone - No

CERCLA Section 103 RQ(lb.): Sudan IV - No

Hexane - No
Methyl isobutyl ketone - 5000
Ethyl alcohol - No
Acetone - 5000

RCRA Section 261.33: Sudan IV - No

Hexane - No
Methyl isobutyl ketone - Yes
Ethyl alcohol - No
Acetone - Yes

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act