

# Safety Data Sheet

## Sudan III Fat Stain, Herxheimer

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1 Product Description

**Product Name:** Sudan III Fat Stain, Herxheimer  
**Recommended Use:** Science education applications  
**Synonyms:** Sudan III Stain, Fat Ponceau G Stain, Cerasin Red Stain  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER**



Highly flammable liquid and vapor. Causes serious eye irritation. Causes damage to organs. Toxic to aquatic life.

**GHS Classification:**

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Flammable Liquid Category 2, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the aquatic environment - Acute Category 2

**Other Safety Precautions:** IF exposed: Call a POISON CENTER or doctor/physician.

**Acute Toxicity Oral Contains** 30.09125 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Dermal Contains** 80.09125 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Inhalation Vapor Contains** 80.09125 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Inhalation Dust/Mist Contains** 80.09125 % of the mixture consists of ingredient(s) of unknown toxicity

### Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Acetone	67-64-1	50
Ethanol	64-17-5	30.09
Water	7732-18-5	16.75
2-Propanol	67-63-0	1.66
Methanol	67-56-1	1.5
Sudan III	85-86-9	0.01

### Section 4 First Aid Measures

**Emergency and First Aid Procedures**

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
**Skin Contact:** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

# Safety Data Sheet

## Section 5

## Firefighting Procedures

<b>Extinguishing Media:</b>	Use dry chemical, CO2 or appropriate foam.
<b>Fire Fighting Methods and Protection:</b>	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
<b>Fire and/or Explosion Hazards:</b>	Fire or excessive heat may produce hazardous decomposition products. Vapors may travel back to ignition source. Closed Containers exposed to heat may explode.
<b>Hazardous Combustion Products:</b>	Carbon dioxide, Carbon monoxide

## Section 6

## Spill or Leak Procedures

<b>Steps to Take in Case Material Is Released or Spilled:</b>	<p>Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Clean up spills immediately using Protective Equipment recommended in Section 8 at a minimum. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation. Keep upwind of the spilled material and isolate exposure.</p> <p>Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. If a spill or leak has not ignited, use water spray to flush away spills and disperse the vapors. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container. Gather and store in a sealed container pending a waste disposal evaluation.</p>
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## Section 7

## Handling and Storage

<b>Handling:</b>	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Storage:</b>	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Suitable for any general chemical storage.
<b>Storage Code:</b>	Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

## Section 8

## Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Acetone	500 ppm TWA	750 ppm STEL	1000 ppm TWA; 2400 mg/m3 TWA	N/A
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A
Sudan III	N/A	N/A	N/A	N/A

### Control Parameters

<b>Engineering Measures:</b>	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
<b>Personal Protective Equipment (PPE):</b>	Lab coat, apron, eye wash, safety shower.

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## Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. If an exposure limit is exceeded provide respiratory protection.

## Respirator Type(s):

NIOSH approved air purifying respirator with organic vapor cartridge.

## Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

## Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

## Gloves:

Butyl rubber, Neoprene, Nitrile

## Section 9

## Physical Data

**Formula:** This product is a mixture.  
**Molecular Weight:** No data available  
**Appearance:** Dark Red Colorless Liquid  
**Odor:** Moderate Fruity Alcohol Odor  
**Odor Threshold:** No data available  
**pH:** No data available  
**Melting Point:** No data available -114 C  
**Boiling Point:** No data available  
**Flash Point:** No data available -20 C  
**Flammable Limits in Air:** No data available

**Vapor Pressure:** No data available  
**Evaporation Rate (BuAc=1):** No data available  
**Vapor Density (Air=1):** No data available  
**Specific Gravity:** No data available  
**Solubility in Water:** Soluble  
**Log Pow (calculated):** No data available  
**Autoignition Temperature:** No data available  
**Decomposition Temperature:** No data available  
**Viscosity:** No data available  
**Percent Volatile by Volume:** 99%

## Section 10

## Reactivity Data

### Reactivity:

Not generally reactive under normal conditions.

### Chemical Stability:

Stable under normal conditions.

### Conditions to Avoid:

Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.

### Incompatible Materials:

Caustics (bases), Peroxides, Strong acids, Halogens, Water-reactive materials

### Hazardous Polymerization:

Will not occur

## Section 11

## Toxicity Data

### Routes of Entry

Inhalation and ingestion.

### Symptoms (Acute):

Eye disorders, Respiratory Irritation, Dermatitis, Central Nervous System Depression, Dizziness, Respiratory disorders

### Delayed Effects:

No data available

### Acute Toxicity:

#### Chemical Name

#### CAS Number

#### Oral LD50

#### Dermal LD50

#### Inhalation LC50

Acetone

67-64-1

Oral LD50 Mouse  
3000 mg/kg

Dermal LD50  
Rabbit 20000  
mg/kg

Inhalation LC50  
(8h) Rat 50.1  
MG/L

Water

7732-18-5

Oral LD50 Rat  
90000 mg/kg

2-Propanol

67-63-0

Oral LD50 Rat  
5045 mg/kg  
Oral LD50 Mouse  
3600 mg/kg

INHALATION  
LC50 Rat 16000  
ppm

Methanol

67-56-1

Oral LD50 Mouse  
7300 mg/kg

INHALATION  
LC50 Rat 64000  
ppm

Sudan III

85-86-9

### Carcinogenicity:

#### Chemical Name

#### CAS Number

#### IARC

#### NTP

#### OSHA

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Acetone	67-64-1	Not listed	Not listed	Not listed
Ethanol	64-17-5	Listed	Listed	Listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed
Sudan III	85-86-9	Not listed	Not listed	Not listed

## Chronic Effects:

<b>Mutagenicity:</b>	No evidence of a mutagenic effect.
<b>Teratogenicity:</b>	No evidence of a teratogenic effect (birth defect).
<b>Sensitization:</b>	No evidence of a sensitization effect.
<b>Reproductive:</b>	No evidence of negative reproductive effects.

## Target Organ Effects:

<b>Acute:</b>	Central Nervous System, Cardiovascular system, Eyes, No data available
<b>Chronic:</b>	Male Reproductive System, No information available, Eyes

## Section 12

## Ecological Data

<b>Overview:</b>	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Keep out of waterways.
<b>Mobility:</b>	This material is expected to have only slight mobility in soil. It absorbs strongly to most soil types.
<b>Persistence:</b>	Biodegradation Biodegradation is expected to be a major fate process for this material.
<b>Bioaccumulation:</b>	No data
<b>Degradability:</b>	No data
<b>Other Adverse Effects:</b>	No data

## Chemical Name

Acetone

Ethanol

Water

2-propanol

Methanol

Sudan III

## CAS Number

67-64-1

64-17-5

7732-18-5

67-63-0

67-56-1

85-86-9

## Eco Toxicity

Aquatic LC50 (96h) Bluegill Sunfish 8300 MG/L

Aquatic LC50 (96h) Rainbow Trout 4.74 - 6.33 ml/l

Aquatic LC50 (96h) Fathead Minnow > 100 MG/L

No data available

Aquatic LC50 (96h) Bluegill Sunfish > 1400 MG/L

Aquatic LC50 (96h) Fathead Minnow 11130 MG/L

Aquatic EC50 (48h) Daphnia 12600 - 12700 MG/L

Aquatic EC50 (48h) Daphnia 2 MG/L

Aquatic EC50 (24h) Daphnia 10800 MG/L

Aquatic EC50 (48h) Daphnia 9268 - 14221 MG/L

Aquatic EC50 (48h) Daphnia 13299 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

## Section 13

## Disposal Information

<b>Disposal Methods:</b>	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
<b>Waste Disposal Code(s):</b>	If discarded, this product is considered a RCRA ignitable waste, D001.

## Section 14

## Transport Information

### Ground - DOT Proper Shipping Name:

UN1090

Flammable Liquid, N.O.S. (acetone, ethanol)

Class 3

PG II

### Air - IATA Proper Shipping Name:

UN1090

Flammable Liquid, N.O.S. (acetone, ethanol)

Class 3

PG II

## Section 15

## Regulatory Information

<b>TSCA Status:</b>	All components in this product are on the TSCA Inventory.
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Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Acetone	67-64-1	No	No	5000 lb final RQ; (2270 kg)	No	No

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Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	No	No	5000 lb final RQ; (2270 kg)	No	No
Sudan III	85-86-9	No	No	No	No	No

**California Prop 65:**

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

## Section 16

## Additional Information

**Revised: 09/09/2015**

**Replaces: 08/11/2015**

**Printed: 10-29-2015**

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.

### Glossary

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