#### Sudan IV Fat Stain, Herxheimer



#### Section 1

#### **Product Description**

**Product Name:**Sudan IV Fat Stain, Herxheimer
Recommended Use:
Science education applications

Synonyms: Sudan IV Fat 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. Harmful if swallowed, in contact with skin or if inhaled. Causes eye irritation. May cause drowsiness or dizziness. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life.

#### **GHS Classification:**

Carcinogenicity Category 1A, Flammable Liquid Category 2, Serious Eye Damage/Eye Irritation Category 2B, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Hazardous to the aquatic environment - Acute Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3, Acute Toxicity - Inhalation Dust / Mist Category 4, Acute Toxicity - Dermal Category 4, Acute Toxicity - Oral Category 4

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

# Section 3 Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Acetone	67-64-1	49.97
Ethyl alcohol	64-17-5	28.53
Water	7732-18-5	16.73
Isopropyl Alcohol	67-63-0	2.99
Methanol	67-56-1	1.43
Methyl Isobutyl Ketone	108-10-1	0.3
Sudan IV	85-83-6	0.05

#### Section 4

#### First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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. IF ON SKIN: Wash with plenty of soap and water.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### Section 5

#### Firefighting Procedures

Water fog in flooding quantities. Apply water from as far a distance as possible. Use dry **Extinguishing Media:** 

chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products. Vapors may

travel back to ignition source. Closed Containers exposed to heat may explode.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

#### Section 6

#### Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

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.

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. 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.

Section 7

**Methods for Clean-up** 

#### Handling and Storage

Obtain special instructions before use. Do not handle until all safety precautions have been read and Handling:

understood. 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well-Storage: ventilated place. Keep cool. Store locked up. Suitable for any general chemical storage.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Sudan IV Fat Stain, Herxheimer

#### Section 8 **Protection Information**

	ACC	<u>GIH</u>	OSHA PEL		
Chemical Name	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	(STEL)	
Acetone	500 ppm TWA	750 ppm STEL	1000 ppm TWA;	N/A	
			2400 mg/m3 TWA		
Ethyl alcohol	N/A	1000 ppm STEL	1000 ppm TWA;	N/A	
			1900 mg/m3 TWA		
Isopropyl Alcohol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980	N/A	
			mg/m3 TWA		
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260	N/A	
			mg/m3 TWA		
Methyl Isobutyl Ketone	20 ppm TWA	75 ppm STEL	100 ppm TWA; 410	N/A	
			mg/m3 TWA		
Sudan IV	N/A	N/A	N/A	N/A	

**Control Parameters** 

**Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

**Personal Protective Equipment (PPE):** 

Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** Respiratory protection will be required when handling this product. Use respirators only if

ventilation cannot be used to eliminate symptoms or reduce the exposure to below

acceptable levels.

**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: No information available

#### Section 9 Physical Data

Formula: See Section 3 Vapor Pressure: No data available

Molecular Weight: No data available Appearance: Dark Red Colorless Liquid Vapor Density (Air=1): No data available

**Odor:** Strong Fruity

Odor Threshold: No data available

pH: No data available

Melting Point: No data available Boiling Point: No data available

Flash Point: No data available

Flammable Limits in Air: No data available

Evaporation Rate (BuAc=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: 83%

#### 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. Sparks, open flame, other ignition sources, and elevated

temperatures. Temperatures above the high flash point of this combustible material in

combination with sparks, open flames, or other sources of ignition.

Caustics (bases), Peroxides, Strong acids, Oxidizing materials, Halogens, Water-reactive **Incompatible Materials:** 

materials, Strong oxidizing agents, Acids, Strong reducing agents, Magnesium

**Hazardous Decomposition Products:** Carbon oxides **Hazardous Polymerization:** Will not occur

#### **Section 11**

#### **Toxicity Data**

Routes of Entry
Symptoms (Acute):

Delayed Effects:

Inhalation, Ingestion, and Skin contact., Inhalation, ingestion, eye or skin contact.

Eye disorders, Dizziness, Depressed Activity, Central Nervous System Depression

No data available

**Acute Toxicity:** 

Chemical Name Acetone	<b>CAS Number</b> 67-64-1	<b>Oral LD50</b> Oral LD50 Mouse 3000 mg/kg	Dermal LD50 Dermal LD50 Rabbit 20000 mg/kg	Inhalation LC50 Inhalation LC50 (8h) Rat 50.1 MG/L
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg	3 3	
Isopropyl Alcohol	67-63-0	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 PPM 8H
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 PPM 4H
Sudan IV	85-83-6			

Carcinogenicity:

CAS Number	IARC	NTP	OSHA
67-64-1	Not listed	Not listed	Not listed
64-17-5	Listed	Listed	Listed
67-63-0	Listed	Not listed	Not listed
67-56-1	Not listed	Not listed	Not listed
108-10-1	Listed	Not listed	Listed
85-83-6	Not listed	Not listed	Not listed
	67-64-1 64-17-5 67-63-0 67-56-1 108-10-1	67-64-1 Not listed 64-17-5 Listed 67-63-0 Listed 67-56-1 Not listed 108-10-1 Listed	67-64-1 Not listed Not listed 64-17-5 Listed Listed 67-63-0 Listed Not listed 67-56-1 Not listed Not listed 108-10-1 Listed Not listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: Central Nervous System, Cardiovascular system, Eyes

Chronic: Male Reproductive System, Eyes

Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

Mobility: No data
Persistence: Biodegradation

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** 96 HR LC50 LEPOMIS MACROCHIRUS 8300 MG/L Acetone 67-64-1 96 HR LC50 PIMEPHALES PROMELAS 6210 - 8120 MG/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 4.74 - 6.33 ml/l 48 HR EC50 DAPHNIA MAGNA 12600 - 12700 MG/L 48 HR EC50 DAPHNIA MAGNA 10294 - 17704 MG/L [STATIC] 64-17-5 96 HR LC50 PIMEPHALES PROMELAS 13400 - 15100 MG/L Ethyl alcohol **IFLOW-THROUGH** 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 12 - 16 ML/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L Water 7732-18-5 No data available Isopropyl Alcohol 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 MG/L 67-63-0 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 96 HR LC50 PIMEPHALES PROMELAS 9640 MG/L [FLOW-THROUGH1 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L Methanol 67-56-1 96 HR LC50 LEPOMIS MACROCHIRUS 13500 - 17600 MG/L [FLOW-THROUGH] 96 HR LC50 ONCORHYNCHUS MYKISS 18 - 20 ML/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 19500 - 20700 MG/L **IFLOW-THROUGH** 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 96 HR LC50 PIMEPHALES PROMELAS 28200 MG/L [FLOW-THROUGH] 108-10-1 96 HR LC50 PIMEPHALES PROMELAS 496 - 514 MG/L [FLOW-Methyl Isobutyl Ketone THROUGH1 48 HR EC50 DAPHNIA MAGNA 170 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

96 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 400 MG/L

Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

85-83-6

UN1993 UN1993

Flammable Liquid, N.O.S. (Acetone, Ethanol, 2-Propanol, Flammable Liquid, N.O.S. (Acetone, Ethanol, 2-Propanol,

Methanol)
Class 3
P.G. II

Methanol)
Class 3
P.G. II

Sudan IV

# Section 15 Regulatory Information TSCA Status: All components in this product are on the TSCA Inventory.

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 final RQ	No	No
Isopropyl Alcohol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No
Methyl Isobutyl Ketone	108-10-1	Methyl isobutyl ketone	No	5000 lb final RQ; 2270 kg final RQ	No	No
Sudan IV	85-83-6	No	No	No	No	No

California Prop 65:



WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

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.

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