

**MSDS****Material Safety Data****Jorvet™**

**Jorgensen Laboratories, Inc.**  
1450 North Van Buren Avenue  
Loveland, CO 80538

**Sudan III Stain**

Product Code: J325

Effective Date: **SEP 25 2009**

24 Hour Emergency Telephone:

CMB: (800)535-5053

All non-emergency questions may be directed to customer service @ 1-970-669-2500 or fax 1-970-663-5042

**HAZARDOUS INFORMATION**

Hazardous Ingredient: Denatured Ethanol, 70%

Synonyms: doubly denatured ethanol, modified 3A alcohol, alcohol anhydrous

CAS #: 64-17-5

Molecular Weight: 46.07

Chemical Formula:  $\text{CH}_3\text{CH}_2\text{OH}$ 

Hazardous Ingredient: Sudan III, 1%

Synonyms: Oil red g, benzeneazobenzeneazo-beta-naphthol, cersain red

CAS #: 85-86-9

Molecular Weight: 352.4

Chemical Formula:  $\text{C}_{22}\text{H}_{16}\text{N}_4\text{O}_1$ **HAZARDS IDENTIFICATION****Emergency Overview****DENATURED ETHANOL 70%, (contains METHANOL)**

**POISON! DANGER! FLAMMABLE!** MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CANNOT BE MADE NONPOISONOUS. CAUSES IRRITATION TO SKIN AND EYES.

AFFECTS CENTRAL NERVOUS SYSTEM, LIVER, BLOOD AND REPRODUCTIVE SYSTEM. May stain skin and clothing.

**SAFETY RATINGS:** Health: 3, Severe (Poison)      Reactivity: 1, Slight  
Flammability: 3, Severe      Contact: 1, Slight

**Protective Equipment:** Safety Glasses or Goggles, Lab Coat or Apron, Gloves.

**Storage Code:** Red: Flammable Hazard.

**Potential Health Effects****INHALATION:**

Slight irritant to the mucous membranes of the upper respiratory tract. Symptoms of overexposure may include headache, drowsiness, loss of appetite and inability to concentrate.

**INGESTION:**

May cause headaches, gastritis, intoxication, blindness and in acute cases death.

**SKIN CONTACT:**

Can cause skin irritation, cracking or flaking due to dehydration and defatting action.

**EYE CONTACT:**

Can cause irritation. Splashes may cause temporary pain and blurred vision.

**CHRONIC EXPOSURE:**

Prolonged skin contact causes drying and cracking of skin. May affect the nervous system. May affect liver, blood and reproductive system. Continued ingestion of small amounts could result in blindness.

**AGGRAVATION of PRE-EXISTING CONDITIONS:**

Persons with pre-existing skin, eye or central nervous system disorders, or impaired liver, kidney, or pulmonary function may be more susceptible to the effects of the substance.

**FIRST AID MEASURES****INHALATION:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

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## Sudan III Stain

### **INGESTION:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### **SKIN CONTACT:**

Wash with soap or mild detergent and water. Get medical advise if irritation develops.

### **EYE CONTACT:**

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## **FIRE FIGHTING MEASURES**

### **FIRE:**

Flash Point: No information available.

Autoignition Temperature: No information available.

Flammable Limits in Air % by Volume: No information available.

### **EXPLOSION:**

No information available.

### **FIRE EXTINGUISHING MEDIA:**

Use alcohol foam, dry chemical or carbon dioxide.

### **SPECIAL INFORMATION:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

**NFPA RATINGS:** Health: 1 Flammability: 2 Reactivity: 0

## **ACCIDENTAL RELEASE MEASURES**

Remove all sources of ignition. Wear appropriate personal protective equipment as specified in the Personal Protection Section. Absorb with a paper towel for proper disposal. Wash area with soap and water.

## **HANDLING AND STORAGE**

Store in a cool, dry, ventilated area away from flame, sources of ignition and heat. Keep containers tightly closed and upright. Protect from physical damage. Keep out of direct sunlight and separate from incompatible materials. Storage and use areas should be non-smoking.

## **PERSONAL PROTECTION**

### **AIRBORNE EXPOSURE LIMITS, ETHANOL:**

OSHA; Permissible Exposure Limit (PEL): 1000 ppm (TWA).

ACGIH; Threshold Limit Value (TLV): 1000 ppm (TWA).

### **VENTILATION SYSTEM:**

In general, dilution ventilation is a satisfactory health hazard control for this substance.

### **PERSONAL RESPIRATORS (NIOSH) APPROVED:**

No information available.

### **SKIN PROTECTION:**

Wear protective clothing, gloves, lab coat or apron, as appropriate, to prevent skin contact.

### **EYE PROTECTION:**

Use chemical safety glasses or goggles. Maintain eye wash fountain in work area.

## PHYSICAL AND CHEMICAL PROPERTIES

|                                   |                           |
|-----------------------------------|---------------------------|
| <b>APPEARANCE:</b>                | Brown-orange liquid.      |
| <b>ODOR:</b>                      | Characteristic.           |
| <b>SOLUBILITY:</b>                | No information available. |
| <b>SPECIFIC GRAVITY:</b>          | No information available. |
| <b>pH:</b>                        | No information available. |
| <b>% VOLATILES by VOLUME:</b>     | No information available. |
| <b>BOILING POINT:</b>             | No information available. |
| <b>MELTING POINT:</b>             | No information available. |
| <b>VAPOR DENSITY (Air =1):</b>    | No information available. |
| <b>VAPOR PRESSURE (mm Hg):</b>    | No information available. |
| <b>EVAPORATION RATE (BuAc=1):</b> | No information available. |

## STABILITY AND REACTIVITY

**STABILITY:**

Stable under ordinary conditions of use and storage.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

No information available.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**INCOMPATIBILITIES:**

Strong oxidizing agents, alkali metals and many other substances. Avoid heat, flame and other sources of ignition.

**CONDITIONS TO AVOID:**

Heat, flames, ignition sources and incompatibles.

## TOXICOLOGICAL/ECOLOGICAL INFORMATION

**TOXICOLOGICAL DATA:**

**Ethanol:** Oral rat LD50: 7060 mg/kg; Inhalation rat LC50: 20000 ppm/10H; Irritation data: Standard Draize Test, Eye rabbit: 500 mg/24hr., moderate. Investigated as a mutagen, reproductive effector.

**ENVIRONMENTAL TOXICITY:**

No information available.

## DISPOSAL INFORMATION

Dispose of container and unused contents in accordance with federal, state and local requirements. State and local disposal regulation may differ from federal disposal regulations.

## OTHER INFORMATION

**TRANSPORT (Land, DOT):** Alcohols, n.o.s. (denatured ethanol), 3, UN1987, II

**PRODUCT USE:** Laboratory Reagent.

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