

SAFETY DATA SHEETS

This SDS packet was issued with item:

078024190

N/A

MSDS**Material Safety Data****JorVel™**

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: CH₃CH₂OH

Hazardous Ingredient: Sudan III, 1%
Synonyms: Oil red g, benzeneazobenzeneazo-beta-naphthol, cersain red
CAS #: 85-86-9
Molecular Weight: 352.4 Chemical Formula: C₂₂H₁₆N₄O₁

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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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

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

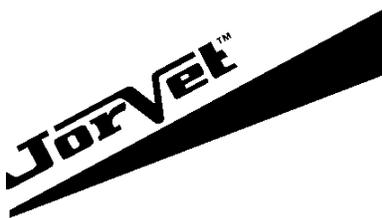
OTHER INFORMATION

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

PRODUCT USE: Laboratory Reagent.

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Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Sudan III Fecal Stain

Product Code(s): J0325

Synonyms: Mixture.

Recommended Use: For invitro veterinary use only.

Uses Advised Against: Not for use on humans.

Supplier: Jorgensen Laboratories
1450 Van Buren Avenue, Loveland, CO 80538
Phone: (970) 669-2500 or (800) 525-5614 Fax: (970) 663-5042

Emergency Phone Number: U.S. and Canada: (800) 535-5053 International: (352) 323-3500 (INFOTRAC)

2. HAZARDS IDENTIFICATION

Hazard Classifications: Specific Target Organ Toxicity (Single Exposure): Category 1
Flammable Liquids: Category 2

Signal Word: DANGER

Hazard Statements: Causes damage to organs.
Highly flammable liquid and vapor.

Pictograms:



Precautionary Statements:

Prevention: Do not breathe fumes, mists, vapors, or spray.
Wash thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
Keep container tightly closed.
Ground container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, and transportation equipment.
Use only non-sparking tools.

Take precautionary measures against static discharge.
Wear protective gloves, protective clothing, eye protection, and face protection.

Response: If exposed: Call a poison center or doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
In case of fire, use water spray, dry powder, alcohol resistant foam, or carbon dioxide to extinguish.

Storage: Store locked up.
Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container in accordance with local, regional, national, and international regulations.

Hazards Not Otherwise Classified: This product may be toxic to humans. Primates are especially susceptible to the toxic effects of methanol, which is not reflected through toxicity data (see Section 11).
May cause adverse reproductive effects and mutagenic effects based on human and animal data.

Toxicity Statement: This product contains >1% ingredients whose acute toxicity is unknown.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H ₂ O	35.6
Ethanol	Ethyl Alcohol	64-17-5	C ₂ H ₅ OH	57.2
Methanol	Methyl Alcohol	67-56-1	CH ₃ OH	2.85
Isopropanol	Isopropyl Alcohol	67-63-0	C ₃ H ₇ OH	3.16
Sudan III	Solvent Red 23	85-86-9	C ₂₂ H ₁₆ N ₄ O	1.16

Trade Secret Statement: Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious, or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor immediately if you feel unwell or are concerned.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a poison center or doctor.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Call a poison center or doctor.

Eye Contact: Check for and remove contact lenses if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a poison center or doctor.

General Advice:	Poison information centers in each state can provide additional assistance for scheduled poisons. Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.
Symptoms and Effects:	Irritation, unconsciousness, visual disturbances, metabolic acidosis, drowsiness, dizziness, suffocation, shortness of breath, nervous system effects, cardiovascular effects, cough, nausea, vomiting, diarrhea, abdominal pain, constipation, blindness, and respiration effects. Harmful or fatal if swallowed, inhaled, or absorbed through the skin. Causes irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause blindness or visual disturbances if absorbed into the blood stream. May affect the blood, brain, urinary system, liver, spleen, eyes, kidneys, cardiovascular system, and pancreas. Prolonged or repeated exposure may cause damage to liver, kidneys, brain, cardiovascular system, central nervous system, blood, spleen, eyes, and heart. Prolonged or repeated exposure may also cause adverse reproductive effects, mutagenic effects, and dermatitis.
Immediate Medical Care/ Special Treatment:	If you feel unwell or are concerned, call a poison center or doctor immediately. Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, dry powder, alcohol resistant foam, carbon dioxide.
Unsuitable Extinguishing Media:	Do not use a solid (straight) water stream, as it may scatter and spread fire.
Hazardous Combustion Products:	Carbon oxides, nitrogen oxides.
Specific Hazards:	Flammable. Vapors may cause flash fire or ignite explosively. Burns vigorously if ignited easily by heat, sparks, or flames. Material may burn with an invisible flame. Sealed containers may explode when heated or involved in fire. Material is sensitive to static discharge. Vapors may travel considerable distance to source of ignition and flash back. Vapor from the solvent may accumulate in container headspace, resulting in flammability hazard.
Special Protective Equipment/ Precautions for Firefighters:	As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. Use water spray to cool unopened containers. Move containers from fire area, if you can do so without risk. This material may evaporate and leave a flammable residue if spilled. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment:	Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment (see Section 8). Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharge. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing.
Emergency Procedures:	In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).
Methods for Containment:	Eliminate all sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material where possible. Product should not be released to the environment. Contain and recover liquid when possible.

Methods for Cleanup: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be absorbed with alcohol or acetone. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Do not handle, store, or open near an open flame, sources of heat, or sources of ignition. Wear personal protective equipment (see Section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Take precautionary measures against static discharge. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store in a segregated and approved area away from incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Ground container and transfer equipment. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:	Water:	No information found.
	Ethanol:	ACGIH: STEL: 1000 ppm OSHA: PEL: 1000 ppm 1900 mg/m ³
	Methanol:	ACGIH: TWA: 200 ppm STEL: 250 ppm BEL: 15 mg/L OSHA: PEL: 200 ppm 260 mg/m ³
	Isopropanol:	ACGIH: TWA: 200 ppm STEL: 400 ppm BEL: 40 mg/L OSHA: PEL: 400 ppm 980 mg/m ³
	Sudan III:	No information found.

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or goggles and a face shield. Maintain approved eye wash station and accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or in any other circumstances where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective Equipment: Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red, transparent liquid.

Odor: Alcoholic.

Odor Threshold: No information found.

Formula Weight: Mixture.

pH: No information found.

Melting/Freezing Point: < 0 °C

Boiling Point/Range: 80.3 °C (estimated)

Decomposition Temperature: No information found.

Flash Point: 22 °C (estimated)

Auto-ignition Temperature: No information found.

Flammability: Explosive as vapor; flammable as liquid.

Flammability/Explosive Limits: Lower: 3.3% by volume
Upper: 19% by volume

Solubility: Miscible with acetone, alcohol.

Vapor Pressure: No information found.

Vapor Density: No information found.

Specific Gravity: < 1.0 (Water = 1)

Evaporation Rate: No information found.

Viscosity: No information found.

Partition Coefficient (n-octanol/water): No information found.

10. STABILITY AND REACTIVITY

Reactivity Data: Flammable. See Section 9.

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat, flames, sparks, sources of ignition, incompatible materials.
Incompatible Materials:	Oxidizing agents, metals, halogens, isocyanates, inorganic salts, inorganic hydrides, organic materials, hydrazine, acid anhydrides, bases, acids.
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides.
Possibility of Hazardous Reactions:	May react vigorously, violently or explosively if exposed to extreme thermal conditions or in contact with the incompatible materials listed above.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:	Inhalation, ingestion, skin contact, eye contact.		
Acute Effects:	May be harmful or fatal if swallowed, inhaled, or absorbed through the skin. Causes irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause blindness or visual disturbances if absorbed into the blood stream. May affect the blood, brain, urinary system, liver, spleen, eyes, kidneys, cardiovascular system, and pancreas.		
Chronic Effects:	May cause central nervous system effects. May cause damage to eyesight. Prolonged or repeated exposure may cause liver, kidney, brain, cardiovascular system, blood, spleen, and heart damage. Prolonged or repeated exposure may cause adverse reproductive effects, mutagenic effects, and dermatitis.		
Toxicological Data:	Water:	No information found.	
	Ethanol:	LD50 Oral, Rat:	7060 mg/kg
		LC50 Inhalation, Rat:	124.7 mg/L 4 h
	Methanol:	LD50 Oral, Rat:	5628 mg/kg
		LD50 Dermal, Rabbit:	15,800 mg/kg
		LC50 Inhalation, Rat:	87.5 mg/L 6 h
	Isopropanol:	LD50 Oral, Rat:	5045 mg/kg
		LD50 Dermal, Rabbit:	12,800 mg/kg
		LC50 Inhalation, Rat:	72.6 mg/L 4 h
	Sudan III:	May cause mutagenic effects based on animal data.	
Symptoms of Exposure:	Irritation, unconsciousness, visual disturbances, metabolic acidosis, drowsiness, dizziness, suffocation, shortness of breath, nervous system effects, cardiovascular effects, cough, nausea, vomiting, diarrhea, abdominal pain, constipation, blindness, and respiration effects.		
Carcinogenic Effects:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
ACGIH:	Isopropanol:	A4 – Not classifiable as a human carcinogen	
IARC:	Isopropanol:	3 – Not classifiable to humans	

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:	Water:	No information found.	
	Ethanol:	EC50, Water Flea (<i>Daphnia magna</i>):	7.7 mg/L 48 h
		LC50, Fathead Minnow (<i>Pimephales promelas</i>):	> 100 mg/L 96 h
	Methanol:	EC50, Water Flea (<i>Daphnia magna</i>):	> 10,000 mg/L 48 h
		LC50, Fathead Minnow (<i>Pimephales promelas</i>):	> 100 mg/L 96 h
	Isopropanol:	LC50, Western Mosquitofish (<i>Gambusia affinis</i>):	>1400 mg/L 96 h
	Sudan III:	No information found.	
Persistence and Degradability:	Expected to be readily biodegradable.		
Environmental Effects:	May be hazardous to aquatic organisms. Avoid release to the environment.		

13. DISPOSAL INFORMATION

Disposal Instructions:	All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers.		
Contaminated Packaging:	Because emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near product container. Offer rinsed packaging material to local recycling facilities.		
Waste Codes:	Methanol:	U154 (US RCRA Hazardous Waste U List – ignitable waste)	

14. TRANSPORT INFORMATION

DOT:

UN Number:	UN1987
Proper Shipping Name:	Alcohols, n.o.s. (Denatured ethanol)
Hazard Class:	3
Packing Group:	II
ERG Number:	127

Environmental Hazard Regulations: No information found.

Other Transport Precautions: No information found.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

Hazard Category	List (Yes/No)
Section 311 – Hazardous Chemical	Yes
Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

Section 313: Isopropyl Alcohol, Methanol: De Minimis Concentration: 1.0%

CERCLA Reportable Quantities: Methanol: 5000 lb

International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	N/A
Canada	Domestic Substances List (DSL)	N/A
Canada	Non-Domestic Substances List (NDSL)	N/A
China	Inventory of Existing Chemical Substances in China (IECSC)	N/A
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	N/A
Europe	European List of Notified Chemical Substances (ELINCS)	N/A
Japan	Inventory of Existing and New Chemical Substances (ENCS)	N/A
Korea	Existing Chemicals List (ECL)	N/A
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	N/A

*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

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Issue Date: March 16, 2015

Reason for Revision: Not applicable.