

Safety Data Sheet

Sudan IV - Isopropanol Solution

Section 1 - Chemical Product and Company Identification

SDS Name: Sudan IV – Isopropanol Solution

Catalog Numbers: H-503-1A

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H225-Flammable liquids: 2

H303-Acute toxicity, oral: 5

H317-Sensitisation, skin: 1A

H319-Serious eye damage/eye irritation: 2A

H336-Specific target organ toxicity, single exposure; Narcotic effects: 3

H373-Specific target organ toxicity, repeated exposure: 2

Pictograms or Hazard symbols and Hazard Statement(s):



Signal Word: Danger

Hazard Statements:

H225-Highly flammable liquid and vapour

H303-May be harmful if swallowed

H317-May cause an allergic skin reaction

H319-Causes serious eye irritation

H336-May cause drowsiness or dizziness

H373-May cause damage to organs through prolonged or repeated exposure (target organs: kidney and liver)

Precautionary Statements:

P210-Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P233-Keep container tightly closed.

P240-Ground and bond container and receiving equipment.

P241-Use explosion-proof electrical/ventilating/lighting equipment.

P242-Use non-sparking tools.

P243-Take action to prevent static discharges.

P260-Do not breathe dust/fume/gas/mist/vapours/spray.

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.

P271-Use only outdoors or in a well-ventilated area.

P272-Contaminated work clothing should not be allowed out of the workplace.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312-If swallowed: Call a Poison Center/doctor if you feel unwell.

P302+P352-If on skin: Wash with plenty of soap and water.

P303+P361+P353-If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312-Call a Poison Center/doctor if you feel unwell.

P314-Get medical attention if you feel unwell.

P333+P313-If skin irritation or rash occurs: Get medical advice/attention.

P337+P313-If eye irritation persists: Get medical advice/attention.

P362+P364-Take off contaminated clothing and wash it before reuse.

P370+P378-In case of fire: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam to extinguish.

P403+P233-Store in a well-ventilated place. Keep container tightly closed.

P403+P235-Store in a well-ventilated place. Keep cool.

P405-Store locked up.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
85-83-6	Sudan IV	0.4 w/v
67-63-0	Isopropyl Alcohol	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at

least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek immediate medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Oral Exposure: If swallowed, seek immediate medical advice. Do not induce vomiting. Rinse mouth with water.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Hazardous Combustion Products: Carbon oxides, peroxides, nitrogen oxides, irritating and toxic fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Keep away from heat. Eliminate all sources of ignition. Take precautionary measures against static discharges.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Use spark-proof tools and explosion-proof equipment. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Use with adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Keep in a tightly closed container in a cool, dry, and well-ventilated area. Store away from direct sunlight. Protect from heat. Keep away from incompatible materials. Eliminate all sources of ignition. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of equipment must be grounded. Use spark-proof tools and explosion-proof equipment. Vapors heavier than air may travel considerable distance and ignite or explode.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Sudan IV CAS#85-83-6	Not listed	Not listed	Not listed
Isopropyl Alcohol CAS#67-63-0	200 ppm TWA 400 ppm STEL	400 ppm TWA 980 mg/m ³ TWA 500 ppm STEL 1225 mg/m ³ STEL 2000 ppm IDLH	400 ppm TWA 980 mg/m ³ TWA

OSHA Vacated PELs: Isopropyl Alcohol: 400 ppm TWA; 980 mg/m³ TWA; 500 ppm STEL; 1225 mg/m³ STEL

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Dark red-brown

Odor: Alcohol-like

Vapor Pressure: Not available
Odor Threshold: Not available
Vapor Density: Not available
pH: Not available
Relative Density: Not available
Melting point/freezing point: Not available
Solubility: Insoluble in water
Boiling Point: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Autoignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available
Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, and excess heat. Direct sunlight.
Incompatibilities with Other Materials: Oxidizing agents, acids, halogens, halogenated compounds, acid anhydrides, and aluminum.
Hazardous Decomposition Products: Carbon oxides, peroxides, nitrogen oxides, irritating and toxic fumes and gases.

Section 11 - Toxicological Information

CAS#85-83-6 Sudan IV: RTECS#: QL5775000

LD50 Oral: Not available
LD50 Dermal: Not available
LC50 Inhalation: Not available

Equivocal tumorigenic agent by RTECS criteria.

Carcinogenicity: Sudan IV CAS#85-83-6 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

Germ cell mutagenicity: Histidine reversion (Ames), hamster embryo, morphological transformation.

CAS#67-63-0 Isopropyl Alcohol: RTECS#: NT8050000

LD50 Oral: 5045 mg/kg (rat)
LD50 Dermal: 12800 mg/kg (rat)
LD50 Inhalation: 72.6 mg/L 4h (rat)

Carcinogenicity: Isopropyl Alcohol CAS#67-63-0 is not listed by NTP, ACGIH, OSHA, or California Prop. 65. Isopropyl Alcohol is listed by IARC (Group 3, Not Classifiable as to its Carcinogenicity to Humans).

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Histidine reversion (Ames), hamster embryo, morphological transformation (Sudan IV).

Specific Target Organ Toxicity, Single Exposure: Respiratory system and central nervous system.

Specific Target Organ Toxicity, Repeated Exposure: Kidney and liver.

Symptoms associated with exposure: Causes serious eye irritation. May cause an allergic skin reaction. May cause CNS depression. Prolonged or repeated exposure can cause headache, dizziness, tiredness, vomiting, diarrhea, and stomach irregularities.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains.

CAS#67-63-0 Isopropyl Alcohol:

LC50, freshwater fish: 11130 mg/L 96h static (pimephales promelas)(fathead minnow)

LC50, freshwater fish: >1400000 µg/L 96h (lepomis macrochirus)(bluegill)

LC50, freshwater fish: 9640 mg/L 96h flow-through (pimephales promelas)(fathead minnow)

EC50, freshwater algae: >1000 mg/L 72h (desmodesmus subspicatus)(green algae)

EC50, water flea: 13299 mg/L 48h (daphnia magna)

EC50, water flea: 9714 mg/L 24h

EC50, microtox: 35390 mg/L 5min (photobacterium phosphoreum)

Persistence and degradability: Not available.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment due to its volatility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT

Proper shipping name: Isopropyl Alcohol

UN1219

PG II

Hazard class 3 (flammable)

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 4-19-22

Revision #1: 3-4-24

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