

Safety Data Sheet (SDS)

Complies with EC no. 1907/2006
Date of Issue: 06/01/2000
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Section 1: Chemical Product and Company Identification

Cat# : 8116, 8101

Part Name: Sanihol ST

Supplier: Decon Laboratories Inc.

460 Glennie Circle King of Prussia, Pa 19406
SDS Telephone # (610) 755-0800

Emergency Telephone Numbers

US Chemtrec: (800) 424-9300

Canada: (703) 527-3887

Identified uses: Laboratory use

Email Contact: cveloski@deconlabs.com

Section 2: Hazards Identification:

Hazard Overview

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4

Flammable Liquids, Category 2

Signal Word: DANGER



Hazard and Precautionary Statements

H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304:	May be fatal if swallowed and enters airways
H301:	Toxic if swallowed
H314	Causes severe skin and eye damage
P260:	Do not breathe dust/fume/gas/mist/vapours/spray
P301+P310	IF SWALLOWED : Immediately call a POISON CENTER/doctor
P270:	Do not eat, drink or smoke when using this product
P233:	Keep container tightly closed
P271	Use only outdoors or in a well ventilated area.
P102:	Keep out of reach of children
P210	Keep away from heat, sparks, open flames and hot surfaces - no smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Flammable. Contains methanol. Liquid and vapor harmful. May be fatal or cause blindness if swallowed. Avoid prolonged breathing of vapors. Avoid contact with eyes and skin. Use only in well ventilated areas.

POTENTIAL HEALTH EFFECTS

EYES: Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness, swelling and eye damage.

SKIN: Liquid is moderately irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

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INGESTION: POISONOUS. May be fatal or cause blindness if swallowed. Ingestion may cause irritation of the digestive tract and may have a narcotic effect including signs of CNS depression such as dizziness, headache, drowsiness, loss of coordination, and fatigue. Ingestion may cause low blood pressure, rapid heartbeat and liver damage.

INHALATION: Excessive exposure to this product may cause headache, CNS depression, drowsiness, dizziness, loss of appetite, irritation of the respiratory tract, drunkenness, unconsciousness, or death.

MEDICAL CONDITIONS AGGRAVATED: Preexisting diseases in or history of ailments involving skin, central nervous system, liver and kidney.

TARGET ORGAN STATEMENT: This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain.

COMMENTS HEALTH: Can cause optic nerve damage (blindness).

COMMENTS: None identified.

Hazard Ratings:
These ratings are Decon Laboratories Inc.'s own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and list 49).

If no data is listed the information is not available

Health 1 Flammability 3 Reactivity 0

Section 3: Composition/ Information on ingredients

Note: Items listed with a CASRN number have no CAS# available

Chemical Name	Vol. %	CAS
Ethanol	61 - 65	64-17-5
Methanol	2 - 5	67-56-1
IPA	2 - 5	67-63-0
Water	28 - 32	7732-18-5

Section 4: First Aid Measures

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

SKIN: Flush skin with water while removing contaminated clothing. If irritation occurs, get medical attention. Do not reuse clothing or shoes until cleaned.

INGESTION: Call poison control center or get medical help immediately. If patient is conscious and alert, give 8 ounces of water or juice and induce vomiting, keeping patient's head below hips to prevent aspiration of liquid into lungs. Never induce vomiting on an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen

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should be administered by qualified personnel. Seek immediate medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness and death may occur. Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side. Shortness of breathing, redness of skin, swelling of tissues and watery eyes.

CHRONIC EFFECTS: None identified.

Section 5: Fire-Fighting Measures

EXTINGUISHING MEDIA: Use "alcohol resistant" foam, dry chemical, or CO₂. Water may be ineffective, but water applied as a spray can absorb some of the fire's heat and should be used to keep fire-exposed containers cool.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion.

EXPLOSION HAZARDS: When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

FIRE FIGHTING PROCEDURES: WARNING. Poisonous and Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

FIRE FIGHTING EQUIPMENT: The use of SCBA is recommended for firefighters. Water spray may be used to cool containers exposed to heat or flame.

HAZARDOUS DECOMPOSITION PRODUCTS: None identified.

COMMENTS: None identified.

Section 6: Accidental Release measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

SMALL SPILL: None identified.

LARGE SPILL: None identified.

GENERAL PROCEDURES: WARNING. Poisonous and Flammable Liquid. Ventilate

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area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

Section 7: Handling and Storage

GENERAL PROCEDURES: Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

HANDLING: Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form. Ground and bond all equipment when transferring from one container to another.

STORAGE: Store away from heat, sparks, and open flame. Keep containers tightly closed when not in use. Do not weld, cut, grind, solder, or drill on or near empty containers. Empty containers may contain explosive concentrations of product vapors.

COMMENTS: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

Section 8: Exposure Controls/ Personal Protection

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

Chemical Name		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Ethanol	TWA	1000	1900	1000	1884	400	980
	STEL					400	1,225
Methanol	TWA	200	260	200	262		
	STEL			250	328		
IPA	TWA	400	980	200	490	NL ^[1]	NL ^[1]
	STEL			400	960	NL	NL

OSHA TABLE COMMENTS:

1. NL = Not Listed

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ENGINEERING CONTROLS: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

SKIN: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

PROTECTIVE CLOTHING: Where splashing is possible, wear impervious clothing and boots.

WORK HYGIENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

COMMENTS: May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties
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PHYSICAL STATE: Liquid

ODOR: Mild odor.

APPEARANCE: Clear, colorless liquid.

pH: Essentially neutral.

PERCENT VOLATILE: 100

FLASHPOINT AND METHOD: 75°F CC

FLAMMABLE LIMITS: 2% to 12%

AUTOIGNITION TEMPERATURE: Not Determined

VAPOR PRESSURE: 32 mm Hg

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Notes: 32-96 mmHg

VAPOR DENSITY: Heavier than air.

BOILING POINT: (170°F) to (178°F)

FREEZING POINT: NDA = no data available.

MELTING POINT: Not Determined **SOLUBILITY IN WATER:** Soluble

EVAPORATION RATE: Slower than ether.

DENSITY: 7.3 at 25°C (77°F)

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SPECIFIC GRAVITY: 0.845 to 0.905 at 25°C (77°F)

(VOC): 6.550 to 6.61 LBS./gal.

Section 10: Stability and Reactivity:

REACTIVITY: Yes

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 deg. F.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion. There should be no decomposition if stored and applied as directed.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong acids, strong alkalies

Section 11: Toxicological Information

ACUTE

INHALATION LC₅₀: None identified.

EYE EFFECTS: Poison. May be fatal or cause blindness, if swallowed. Cannot be made nonpoisonous.

SENSITIZATION: None identified.

REPRODUCTIVE EFFECTS: None identified.

TARGET ORGANS: This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain. Laboratory studies have shown that petroleum distillates may cause kidney, liver, or lung damage. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TERATOGENIC EFFECTS: No evidence of teratogenicity was noted following inhalation exposure of pregnant rats by airborne concentrations of up to 16,000 ppm of

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ethyl alcohol for 7 hours on days 1 through 19 of gestation.

GENERAL COMMENTS: None identified.

COMMENTS: Poison. May be fatal or cause blindness, if swallowed. Cannot be made nonpoisonous.

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Section 12: Ecological Information

ENVIRONMENTAL DATA: Do not flush to sewer.

ECOTOXICOLOGICAL INFORMATION: Keep out of waterways.

GENERAL COMMENTS: Avoid uncontrolled releases of this material.

Where spills are possible, a comprehensive spill response plan should be developed and implemented.

Section 13: Disposal Considerations

DISPOSAL METHOD: The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

EMPTY CONTAINER: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

RCRA/EPA WASTE INFORMATION: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14: Transportation Information

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING

Note: Exemptions apply for small pack sizes

NAME: Ethanol Solutions

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PRIMARY HAZARD

CLASS/DIVISION: 3

UN/NA NUMBER: UN

1170

PACKING GROUP: III

NAERG: 127

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Section 15: Regulatory Information

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable Liquid

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identifies items which are known to the State of California to cause reproductive toxicity. All components of this product are on the TSCA public inventory.

CAS#	Column A	Column B
0000064175	no	no
0000067561	Yes	no
0000067630	no	no
0007732185	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000064175	not listed
0000067561	not listed
0000067630	not listed
0007732185	not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List

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CAS#	Regulated Name	de minimis conc %	Rep. Thres
0000064175	not listed	not listed	Not listed
0000067561	Methanol	1.0	Not listed
0000067630	Isopropyl alcohol (manufacturing-strong acid process, no sus	1.0	Not listed
0007732185	not listed	not listed	Not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds
0000064175	Not Listed	Not Listed	Not Listed
0000067561	Not listed	Not Listed	Not Listed
0000067630	Not Listed	Not Listed	Not Listed
0007732185	Not listed	Not Listed	Not Listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000064175	Not listed	Not listed
0000067561	Not listed	Not listed
0000067561	Methyl alcohol	5,000
0000067630	Not listed	Not listed
0007732185	Not listed	Not listed

GENERAL COMMENTS: The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Section 16: Other Information

Date of Issue: 06/01/2000

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End of Safety Data Sheet