

# Material Safety Data Sheet



## Section 1. Chemical Product and Company Identification

Product Name	Product Code
Reagent Alcohol - 190 Proof	9500-1
Manufacturer's Name	Emergency Telephone Number
StatLab Medical Products, Inc.	800-424-9300
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information
407 Interchange st.	800-442-3573 x 2
McKinney Tx 75071	Date Prepared
	3/19/2003 rev (11-08)
	Signature of Preparer (optional)

## Section 2. Composition/Information on Ingredients

Component	CAS #	OSHA PEL	ACGIH TLV	Percent
Ethyl Alcohol	64-17-5	1000 ppm		89.5-91.5% (v/v)
Methyl Alcohol	67-56-1	200 ppm		4.0-5.0% (v/v)
Isopropyl Alcohol	67-63-0	400 ppm		4.5-5.5% (v/v)
Water	7732-18-5	n/a		Balance

## Section 3. Hazards Identification

### Emergency Overview

Target Organ: Liver

Individual responses to methyl alcohol vary. Ingestion of less than 30 ml has been fatal to humans. In general, a few ounces may cause blindness and death; as little as 4 ml may be toxic if ingested.

### Potential Health Effects

Eye                   Liquid or vapor may cause irritation.

Skin                   May cause irritation and defatting of the skin on prolonged contact.

Ingestion            Can cause depression of central nervous system, nausea, vomiting, diarrhea.

Inhalation           Exposure to over 1000 ppm may cause headache, drowsiness and lassitude, loss of appetite, and inability to concentrate. Irritation of the throat.

Chronic/Carcinogenicity    N/A

Teratology           N/A

Reproduction       N/A

Mutagenicity       N/A

## Section 4. First Aid Measures

Eye                   Eyes should be flushed with plenty of cool water for at least 15 minutes. GET MEDICAL ATTENTION IMMEDIATELY.

Skin                   Immediately flush affected area with plenty of cool water. Remove and wash contaminated clothing before reuse.

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Ingestion If victim is conscious and able to swallow, have victim drink water or milk to dilute. Never give anything by mouth if victim is unconscious or having convulsions. CALL A PHYSICIAN IMMEDIATELY.  
Induce vomiting only if advise by a physician or Chemtrec (Posion Control).

Inhalation Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth.  
GET MEDICAL ATTENTION IMMEDIATELY.

All Other Means of Exposure CONTACT POISON CONTROL CENTER IMMEDIATELY. Be prepared to provide hazardous ingredient information from Section 2.

## Section 5. Fire Fighting Measures

Flammable Properties	Flash Point	50° F	tag closed cup	
Flammable Limits	Lower	3.3*	Upper	19*
Autoignition Temperature		685 F		

\*For Pure Ethyl Alcohol

NFPA RATING: Health (0) Fire (3) Reactivity (0)

Hazardous Combustion Products N/A

Extinguishing Media Use dry chemical, "alcohol" foam, or carbon dioxide; water may be ineffective, but should be used to keep fire-exposed containers cool.  
If a leak or spill has not ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures and to dilute spills to nonflammable mixtures (NFPA-49 1991).

Fire Fighting Instructions (Note: Individuals should perform only those fire-fighting procedures for which they have been trained.) Use dry chemical, "alcohol" foam, carbon dioxide; water may be ineffective, but water should be used should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures and to dilute spills to nonflammable mixtures (NFPA-49 1991).  
Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full face piece when there is a possibilty of exposure to smoke, fumes, or hazardous decomposition products.

## Section 6. Accidental Release Measures

Wear appropriate respiratory protection and protective clothing as described. Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. In the event of an uncontrolled release, the user should determine if the release is reportable under applicable laws and regulations.

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## Section 7. Handling and Storage

Handling When contents are being transferred, the metallic container must be bonded to the receiving container and grounded to avoid static discharges.

Never use pressure to empty. Replace closure securely after each opening.

Keep material packaged in drums or bottles out of sun and away from heat. Remove closure carefully; internal pressure may be present. Keep closure on to prevent leakage.

Storage Protect container from physical damage. Detached or outside storage is preferred. Inside storage should be in a NFPA approved flammable liquid storage room or cabinet. All ignition sources should be eliminated. Smoking should be prohibited in storage areas. Electrical installations should be in accordance with Article 501 of the National Electrical Code. NFPA 30, Flammable and Combustible Liquids Code, should be followed for all storage and handling. Frequent careful leakage inspections should be done. Automatic sprinkler system should be provided. Isolate from oxidizers, chemicals capable of spontaneous heating, material reacting with air or moisture to liberate heat, ignition sources and explosives. Consult local fire codes for additional storage information.

## Section 8. Exposure Controls, Personal Protection

Engineering Controls Handle in the presence of adequate ventilation.

Respiratory Protection Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminant in air and in accordance with OSHA (29 CFR 1910.134).

Skin Protection Wear gloves and protective clothing which are impervious to the product for the duration of the anticipated exposure if there is potential for prolonged or repeated skin contact.

Eye Protection Wear safety glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

### Permissible Exposure Levels (see also Section 2)

Component	CAS #	OSHA PEL	ACGIH TLV	Percent
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## Section 9. Physical and Chemical Properties

Boiling Point	173 F	Specific Gravity (H <sub>2</sub> O = 1)	0.793@60 F
Vapor Pressure (mm Hg)	44.6 mm Hg @ 68 F	Melting Point	-173 F
Vapor Density (AIR = 1)	1.59	Evaporation rate (Butyl Acetate = 1)	
Solubility in Water		Physical State	
Complete			
Appearance and Odor		Other	
Clear and colorless			

## Section 10. Stability and Reactivity

Chemical Stability	Generally stable.
Incompatibility	Contact with acetyl chloride and a wide range of oxidizing agents may react violently.
Hazardous Decomposition Products	N/A
Hazardous Polymerization	Not likely.

## Section 11. Toxicological Information

## Section 12. Ecological Information

## Section 13. Disposal Considerations

All recovered material should be packaged, labeled, transported, and disposed of, or relaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

Container hazardous when empty. Since emptied containers retain residual product (vapor and liquid), all precautions described in this MSDS must be observed.

## Section 14. Transport Information

US DOT (domestic ground) Ethanol Solutions, 3, II, UN1170

IATA (air) Ethanol Solutions, 3, II, UN1170

NOTE: It is ultimately the shippers responsibility to make hazard class determination based on their best information available.

## Section 15. Regulatory Information

ATF DISTILLED SPIRITS ACT: Use of ethyl alcohol without prior payment of applicable excise tax is strictly controlled by regulations promulgated and enforced by the Bureau of Alcohol, Tobacco and Firearms (ATF), Department of the Treasury. Governing Regulations have been defined in Title 27, Code of Federal Regulations.

TOXIC SUBSTANCE CONTROL ACT (TSCA) This product is listed in the TSCA Inventory of Chemical Substances.

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## Section 16. Other Information

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard.

Alteration to its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and STATLAB MEDICAL PRODUCTS, INC. assumes no legal responsibility or liability whatsoever resulting from its use.