



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### ALCOHOL ANHYDROUS

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Denatured Ethyl Alcohol., Reagent Alcohol 200 proof

CAS #: 64-17-5

DOT Hazard Class: Flammable liquid UN 1987

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

	Nominal Wt/Wt%	PEL/TLV
Ethyl Alcohol	90.50	1000 ppm (Nervous system depressant)
Methyl Alcohol	4.53	
Isopropyl Alcohol	4.97	

#### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Colorless, odorless clear liquid. May cause irritation to the skin and eyes and is a depressant to central nervous system. Caution: Is flammable.

**POTENTIAL HEALTH EFFECTS:**

**Eyes:** May cause irritation.

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

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

**Ingestion:** Can cause depression of the central nervous system, nausea, vomiting and diarrhea.

**Other:** Individual response to methyl alcohol vary. Ingestion of less than 30ml (0.34g/kg) has been fatal to humans. In general, a few ounces may cause blindness and death; as little as 4ml may be toxic if ingested.

CARCINOGENICITY: Not listed under OSHA, IARC, or NTP.

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#### **SECTION 4 - FIRST AID MEASURES**

**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 OR CHEMTREC (Poison Control) immediately.** Induce vomiting only if advised by physician or Chemtrec (Poison Control).

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

**CONTACT WITH EYES AND SKIN:** Immediately flush affected area with plenty of cool water. Eyes should be flushed for at least 15 minutes. Remove and wash contaminated clothing before reuse. **GET MEDICAL ATTENTION IMMEDIATELY.**

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#### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: 50°F ASTM D-56 (TAG CLOSED CUP)

Flammable Limits: Lower 3.3 - Upper 19

Extinguishing Media: Use a dry chemical, "Alcohol" foam, or carbon dioxide. Water may be ineffective, but water should be used to keep fire exposed containers cool.

Special Fire Fighting Procedures: Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures.

Unusual Fire Explosion Hazard: Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full face piece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

Auto Ignition Temperature: 685°F

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#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spilled liquid with sand or earth or absorbent media. Place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

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## **SECTION 7 - HANDLING AND STORAGE**

Protect container against 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 area. 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, materials reacting with air or moisture to liberate heat, ignition sources and explosives. Consult local fire codes for additional storage information.

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.

Emptied containers retain residual product (vapor and liquid), all precautions described on this MSDS must be observed. CAUTION: For manufacturing, processing, repackaging, or industrial use. Not for household use.

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## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate vapors from the work area.

### **SKIN AND EYE PROTECTION:**

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

### **WORK, HYGIENIC PRACTICES:**

As required to protect skin and eyes from vapors, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE GUIDELINES: Ethyl Alcohol - PEL/TLV 1000 ppm

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: 173°C

Vapor Pressure (MM Hg): 44.6°C (68°F)

Vapor Density (AIR=1): 1.59

Specific Gravity (H2O=1): 0.798 @ 60°F

Bulk Density: Not Applicable

Percent Volatile by Volume (%): 100%

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): 1.9

Solubility in Water: Complete

pH: Not Applicable

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**SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable

KEEP AWAY FROM: Acetyl Chloride and a wide range of oxidizers.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Not Available

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**SECTION 12 - ECOLOGICAL INFORMATION**

Not available

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME:.....ALCOHOL ANHYDROUS  
TECHNICAL SHIPPING NAME:.....Alcohols N.O.S.  
D.O.T. HAZARD CLASS:.....Flammable Liquid  
U.N./N.A. NUMBER.....1987  
PRODUCT RQ (lbs.).....5,000 lbs  
D.O.T. LABEL.....Alcohol Anhydrous, UN 1987, Class 3, Group I  
D.O.T. PLACARD.....Flammable Liquid  
PRODUCT LABEL.....Flammable Liquid

**SECTION 15 - REGULATORY INFORMATION**

TSCA (TOXIC SUBSTANCE CONTROL ACT):  
This product is listed on the TSCA Inventory.

SARA TITLE III INFORMATION:

Section 302 Extremely hazardous Substance Listed

Section 313 Toxic Chemicals: Listed (as Methyl Alcohol)

Section 311/312 Hazard Category:  
Fire Hazard, Sudden Release Of Pressure, Immediate (acute),and Delayed (chronic) Health Hazard.

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**SECTION 16 - OTHER INFORMATION**

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

Reason for Issue: Changed Date

**This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.**

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