

MATERIAL SAFETY DATA SHEET

(MSDS Sheet is in compliance with 29CFR 1910. 1200)

Manufacturer:
IMEB INC.
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Date Prepared: 02/04/1998
CAT #: TA-110;

Product Trade name: Reagent Alcohol
Product Description: Alcoholic Solution

Section I Hazardous Composition Information

Hazardous Components	CAS No.	OSHA PEL	ACGIH / TLV	TWA
Ethanol, Reagent w/ IPA				
Ethanol	64-17-5	1900 mg/m3	n/a	1000 ppm
Isopropyl	67-63-0	n/a	500 ppm	1230mg/m3

Section II Physical and Chemical Characteristics

Specific Gravity: 0.89 @ 77 F
Solubility in Water: Soluble
SP. Gravity of Vapor: n/a
Evaporation Rate (n-Bu Acetate = 1): n/a
Vapor Pressure: 42.47 mm of Hg @ 20.0 C
Viscosity: n/a
Boiling Point: 88.5 F
Color: Gin White **Odor:** Alcohol **State:** Liquid

Section III Stability and Reactivity

Stability: Stable.
Conditions to Avoid: n/a
Hazardous Polymerization: Will not occur
Incompatible Materials: Strong acids, Alkalines and Chlorine by-products.
Hazardous Decomposition Products: Products of biodegration are Carbon Monoxide, Carbon Dioxide and Nitrogen Dioxide.

Section IV Fire and Explosion Data

Flashpoint: 63 F
Flammable Limits: **LEL:** 6% **UEL:** 40%
Autoignition Temperature: 750 F
Extinguishing Media: Foam, Dry Chemical, Water Spray, CO2.
Special Fire Fighting Procedure: Fight fire from safe distance. Product is combustible.
Decomposition Products Under Fire Conditions: n/a

Section V Health Hazard Data

Acute Health Effects:

Eye Contact: Causes burning sensation and eye irritation.
Skin Contact: May cause skin irritation.

Inhalation: May irritate lungs and nasal lining.

Ingestion: May be toxic if ingested.

Chronic Health Effects:

Eye Contact: Prolonged contact may cause blindness.

Skin Contact: Prolonged contact to skin can cause irritation.

Inhalation: Prolonged inhalation of vapors may lead to chronic respiratory irritation and unconsciousness.

Ingestion: May be toxic if ingested.

Toxicity to Animals: Warning: The LC50 Values hereunder are estimated on the basis of 4 hour exposure. Acute oral toxicity [LD50]: 3600 mg/kg [mouse] [Isopropyl Alcohol]. Acute dermal toxicity [LD50]: > 5000 mg/kg [Rabbit] [Isopropyl Alcohol]/ Acute toxicity of the vapor [LC50]: > 5000 ppm [Rat] [Ethyl Alcohol 200 pf]

Medical Conditions Aggravated by Exposure: n/a

Section VI Emergency First Aid Procedures

Eye Contact: Flush eye with copious amounts of water or saline solution. Seek Medical Attention.

Skin Contact: Wash contact area with soap and water. Seek Medical Attention if symptoms persist.

Inhalation: Remove victim to well ventilated area. Seek Medical Attention if symptoms persist.

Ingestion: Do not induce vomiting. Remove objects blocking air passage if person is conscious. Seek immediate Medical Attention.

Section VII Spill, Disposal and Storage Methods

Accidental Spill: Immediately inform employees. Wear gloves, goggles, and approved respirator. Dike area with sand or absorbent material. Absorb spill with sand or absorbent material. Clean area with soap and water.

Waste Disposal: All waste must be disposed in accordance to local, state, and federal regulations.

Storage: Store in original container or LDPP, HDPE or any plastic container except PolyCarbonate and Polystyrene. Store at room temperature, away from direct sparks, flame and electrical devices.

Section VIII Personal Protection and Handling

Ventilation: Use mechanical fume hood.

Respiratory Protection: Use MIOASH or NIOSH approved organic respirators.

Eye Protection: Wear goggles or splash shield.

Protective Gloves: Wear latex gloves or impermeable protective gloves.

Other Protective Clothing or Equipment: Wear lab apron.

Hygienic Practices: Wash hands before meals or breaks.

State and Federal Regulations:

Superfund Amendments and Reauthorization Act of 1986 [SARA] Title III requires emergency planning based on Threshold Planning Quantities [TPQs] and release reporting based on Reportable Quantities [RQs] in 40 CFR 355 [used for SARA 302, 304, 311 and 312]. Components present in this product at a level which could require reporting under the statute are:

NONE

Superfund Amendments and Reauthorization Act of 1986 [SARA] Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 [used for SARA 313]. This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are:

Isopropyl

Alcohol Pennsylvania Right-To-Know. Hazardous substances List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

Ethanol Isopropyl Alcohol

Massachusetts Right-To-Know, Substance List [MSL] Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

Ethanol Isopropyl Alcohol

Comprehensive Environmental Response, Compensations, and Liability Act of 1980 [CERCLA] requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities [RQs] in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are:

NONE

WARNING: This product contains a chemical known to the State of California to cause cancer. Chemical ingredient[s] requiring this warning:

Ethyl Alcohol 200 Proof

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Chemical ingredient[s] requiring this warning

Ethyl Alcohol 200 Proof

Other Classifications:	WHMIS [Canada]	WHMIS CLASS B-2: Flammable liquid with a flash point lower Than 37.8 C [100 F]. WHMIS CLASS D-2A: Material causing other toxic effects [VERY TOXIC]
	DSCL [EEC]	R3 – Extreme risk of explosion by shock, friction, fire or other Sources of ignition. R12 – Extremely flammable. R20 – Harmful by inhalation. R41 – Risk of serious damage to eyes.

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