

**SECTION 1: Identification**

<b>Product Name</b>	Ethyl Alcohol, Denatured, Anhydrous
<b>Other Identifiers</b>	84410-22
<b>Recommended Uses</b>	General Laboratory Reagent/Chemical.
<b>Uses Advised Against</b>	Not intended for drug, food or household use.
<b>Address</b>	SPEX CertiPrep, LLC 203 Norcross Ave. Metuchen, NJ 08840 USA
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<b>24-Hour Emergency Telephone</b>	CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887

**SECTION 2: Hazard(s) Identification**

Hazards not otherwise classified or covered by GHS

None identified.

**SECTION 3: Composition / Information on Ingredients**

Component Name	Component Number CAS	Component Number EC	Component Weight %
Ethyl alcohol	64-17-5	200-578-6	86
Isopropyl alcohol	67-63-0	200-661-7	9
Methyl alcohol	67-56-1	200-659-6	4
Methyl isobutyl ketone	108-10-1	203-550-1	1

## SECTION 4: First-Aid Measures

<b>General Advice</b>	Show this SDS to attending physician if medical treatment is needed.
<b>Skin Contact</b>	Immediately wash affected area with soap and water while removing contaminated clothing . Seek medical attention if there is any evidence of skin damage or persistent irritation.
<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek immediate medical attention.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored , seek medical attention.
<b>Ingestion</b>	Rinse mouth. Seek medical attention if feeling unwell.
<b>Symptoms/effects</b>	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
<b>Treatment</b>	Treat symptomatically.

## SECTION 5: Fire-Fighting Measures

<b>Extinguishing Media</b>	Use carbon dioxide, foam, dry chemical or sand/earth to extinguish. Do not use water; solid streams of water may spread fire.
<b>Specific Hazards</b>	Thermal decomposition may produce toxic or irritating fumes.
<b>Actions for Firefighters</b>	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use water spray to cool containers.

## SECTION 6: Accidental Release Measures

<b>Precautions and Procedures</b>	Remove all sources of ignition. Vapors can accumulate. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>Environmental Precautions</b>	As with any chemical, avoid release to the environment for the responsible stewardship of our planet.
<b>Containment and Clean Up</b>	Remove all sources of ignition. Have fire extinguishing agent available. Use only non-sparking tools and explosion-proof equipment. Wear respiratory protection, gloves, eye protection and protective clothing. Contain and absorb with inert absorbent material or vacuum up spillage and collect in suitable lidded container for disposal.

## Section 7: Handling and Storage

<b>Handling</b>	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling this substance. Wear chemical resistant gloves, protective clothing and eye protection when handling this substance, as well as any other PPE recommended in any section of this SDS. Ground or bond containers. Use only non-sparking tools and explosion-proof equipment. Ensure adequate ventilation and absence of ignition sources.
<b>Storage</b>	Keep containers tightly closed in a cool and well-ventilated place. Avoid storage near heat, ignition sources or open flame. Protect from physical damage. Store separately from incompatible materials. Store locked up.

## Section 8: Exposure Controls / Personal Protection

<b>Engineering Controls</b>	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.
<b>Exposure Limits</b>	Ethyl alcohol PEL-TWA 1900 mg/m <sup>3</sup> US-OSHA
<b>Exposure Limits</b>	Ethyl alcohol REL-TWA 1000 ppm US-NIOSH
<b>Exposure Limits</b>	Ethyl alcohol TLV-STEL 1000 ppm US-ACGIH
<b>Exposure Limits</b>	Isopropyl alcohol PEL-TWA 980 mg/m <sup>3</sup> US-OSHA
<b>Exposure Limits</b>	Isopropyl alcohol REL-TWA 400 ppm US-NIOSH
<b>Exposure Limits</b>	Isopropyl alcohol TLV-TWA 200 ppm US-ACGIH
<b>Exposure Limits</b>	Isopropyl alcohol REL-STEL 500 ppm US-NIOSH
<b>Exposure Limits</b>	Isopropyl alcohol TLV-STEL 400 ppm US-ACGIH
<b>Exposure Limits</b>	Methyl alcohol PEL-TWA 260 mg/m <sup>3</sup> US-OSHA
<b>Exposure Limits</b>	Methyl alcohol REL-TWA 200 ppm US-NIOSH
<b>Exposure Limits</b>	Methyl alcohol TLV-TWA 200 ppm US-ACGIH
<b>Exposure Limits</b>	Methyl alcohol REL-STEL 250 ppm US-NIOSH
<b>Exposure Limits</b>	Methyl alcohol TLV-STEL 250 ppm US-ACGIH
<b>Exposure Limits</b>	Hexone PEL-TWA 410 mg/m <sup>3</sup> US-OSHA
<b>Exposure Limits</b>	Hexone REL-TWA 50 ppm US-NIOSH
<b>Exposure Limits</b>	Hexone TLV-TWA 20 ppm US-ACGIH
<b>Exposure Limits</b>	Hexone REL-STEL 75 ppm US-NIOSH
<b>Exposure Limits</b>	Hexone TLV-STEL 75 ppm US-ACGIH
<b>Eye Protection</b>	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.
<b>Skin Protection</b>	Wear chemical resistant gloves and protective clothing.
<b>Respiratory Protection</b>	Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical fume hood), wear respiratory protection.

## Section 9: Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Appearance/Color</b>	Colorless
<b>Odor</b>	Alcohol
<b>Odor Threshold</b>	1 ppm
<b>Melting/Freezing Point</b>	-90°C
<b>Boiling Point/Range</b>	78.6°C
<b>Flammability</b>	Flammable
<b>Flammable/Explosive Limits</b>	4.3 - 19.3%
<b>Flash Point</b>	13.9°C
<b>Auto-Ignition Temperature</b>	361°C
<b>Decomposition Temperature</b>	Data not available
<b>pH</b>	Data not available
<b>Viscosity</b>	Data not available
<b>Solubility (in water)</b>	Miscible
<b>Partition Coefficient (n-octanol/water)</b>	Data not available
<b>Relative Density</b>	.7893
<b>Vapor Pressure</b>	Data not available
<b>Vapor Density</b>	Data not available
<b>Evaporation Rate</b>	Data not available
<b>Particle Characteristics</b>	Not applicable.

## Section 10: Stability and Reactivity

<b>Reactivity</b>	Based on available data, no reaction hazards have been identified.
<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Hazardous Reactions</b>	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials. Avoid breathing mist or vapors. Keep away from heat, sparks and open flame.
<b>Incompatible Materials</b>	Acids, strong oxidizing agents, isocyanates, chlorine.
<b>Hazardous Decomposition</b>	Thermal decomposition can produce carbon oxides.

## Section 11: Toxicological Information

<b>Acute Toxicity - Oral</b>	ATE: 6589 mg/kg
<b>Acute Toxicity - Dermal</b>	ATE: 77,028 mg/kg
<b>Acute Toxicity - Inhalation</b>	ATE: 73,660 mg/m <sup>3</sup>
<b>Skin Corrosion/Irritation</b>	This material is not expected to cause skin irritation under normal conditions.
<b>Eye Damage/Irritation</b>	Can cause serious eye irritation.
<b>Respiratory Sensitization</b>	Not expected to cause respiratory sensitization.
<b>Skin Sensitization</b>	Not expected to cause skin sensitization.
<b>Germ Cell Mutagenicity</b>	Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity.
<b>Carcinogenicity</b>	This substance contains a chemical classified as possibly carcinogenic to humans (IARC: Group 2B).
<b>Reproductive Toxicity</b>	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
<b>STOT Single Exposure</b>	None known.
<b>STOT Repeated Exposure</b>	Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system. This may result in persistent or recurring headaches and impaired vision.
<b>Aspiration Hazard</b>	This substance is not considered to be an aspiration hazard.
<b>Other Information</b>	The toxicological properties have not been fully investigated. Data is unavailable, limited or inconclusive.

## Section 12: Ecological Information

<b>Toxicity Values</b>	ATE: 7881 mg/L
<b>Persistence/Biodegradability</b>	Data is not available for this mixture of substances.
<b>Bioaccumulation Potential</b>	Data is not available for this mixture of substances.
<b>Mobility in Soil</b>	Data is not available for this mixture of substances.
<b>Other Adverse Effects</b>	None known.

## Section 13: Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

## Section 14: Transport Information

<b>UN Number</b>	UN1987
<b>Proper Shipping Name, Hazard Class</b>	ALCOHOLS, N.O.S. (ETHANOL, METHANOL, ISOPROPANOL), 3
<b>Packing Group</b>	II
<b>Marine Pollutant</b>	Not classified as a marine pollutant.

## Section 15: Regulatory Information

<b>USA TSCA</b>	All components are on or in compliance with the inventory.
<b>USA SARA 302/304</b>	Isopropanol, TPQ 4540 kg (10,000 lbs)
<b>USA SARA 302/304</b>	Methyl alcohol, TPQ 4540 kg (10,000 lbs) RQ 2270 kg (5000 lbs)
<b>USA SARA 302/304</b>	Hexone, TPQ 4540 kg (10,000 lbs), RQ 2270 kg (5000 lbs)
<b>USA SARA 311/312</b>	Isopropanol
<b>USA SARA 311/312</b>	Methyl alcohol
<b>USA SARA 311/312</b>	Hexone
<b>USA SARA 313 (TRI)</b>	Methyl alcohol
<b>USA SARA 313 (TRI)</b>	Hexone
<b>Canada DSL/NDL</b>	All components are on or in compliance with DSL.
<b>California Proposition 65</b>	This product contains a chemical on the list.

## Section 16: Other Information

<b>Acronyms</b>	ACGIH	American Conference of Governmental Industrial Hygienists (USA)
	ATE	Acute Toxicity Estimate (calculated toxicity value)
	BCF	Bioconcentration Factor
	CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
	DOT	Department of Transportation (USA)
	DSL	Domestic Substances List (Canada)
	EHS	Extremely Hazardous Substance
	EPA	Environmental Protection Agency (United States)
	GHS	Globally Harmonized System
	IARC	International Agency for Research on Cancer
	IDLH	Immediately Dangerous to Life and Health
	NTP	National Toxicology Program (USA)
	OSHA	Occupational Safety and Health Administration (USA)
	PEL	Permissible Exposure Limit
	PNOR	Particulates Not Otherwise Classified
	PPE	Personal Protective Equipment
	ppb	Parts per billion
	ppm	Parts per million
	RQ	Reportable Quantity
	SARA	Superfund Amendments and Reauthorization Act (USA)
	TLV	Threshold Limit Value
	TPQ	Threshold Planning Quantity
	TRI	Toxic Release Inventory (USA)
	TSCA	Toxic Substances Control Act (USA)
	TWA	Time Weighted Average
	UN	United Nations



## Safety Data Sheet

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** product safety department

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