

Safety Data Sheet

SECTION 1: Identification

Product Name	Reagent Alcohol, ACS Reagent, Absolute (Anhydrous Denatured Ethanol)
Product Code	C1120700
Other Identifiers	SDA3A + Isopropyl Alcohol
Recommended Uses	General Laboratory Reagent/Chemical.
Uses Advised Against	Not intended for drug, food or household use.
Address	3825 Parrott Drive Charlotte, NC 28214 USA
Email	orders@reagents.com
Fax	1-888-843-4384
Telephone	1-800-732-8484
Website	www.reagents.com
24-Hour Emergency Telephone	
CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887	

SECTION 2: Hazard(s) Identification

Flammable liquids (Category 2)

Serious eye damage/eye irritation (Category 2A)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER

Hazard Statements

Highly flammable liquid and vapour. Causes serious eye irritation.

Precautionary Statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take action to prevent static discharges. Wash areas of contact/exposure thoroughly after handling. Wear protective gloves and clothing and eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin/hair with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. IF eye irritation persists: Get medical help. In case of fire: Use dry chemical, foam or carbon dioxide (CO₂) for extinction. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local, state, federal and international regulations.



SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Ethanol	64-17-5	200-578-6	90.5
Isopropanol	67-63-0	200-661-7	4.98
Methanol	67-56-1	200-659-6	4.52

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SECTION 4: First-Aid Measures

General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	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.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek immediate medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored , seek medical attention.
Ingestion	Rinse mouth. Seek medical attention if feeling unwell.
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
Treatment	Treat symptomatically.

SECTION 5: Fire-Fighting Measures

Extinguishing Media	Use water, carbon dioxide, foam, dry chemical or sand/earth to extinguish.
Specific Hazards	Thermal decomposition may produce toxic or irritating fumes.
Actions for Firefighters	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

Precautions and Procedures	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.
Environmental Precautions	As with any chemical, avoid release to the environment for the responsible stewardship of our planet.
Containment and Clean Up	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

Handling	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.
Storage	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.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	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.			
Exposure Limits	Ethyl alcohol	PEL-TWA	1900 mg/m³	US-OSHA
Exposure Limits	Ethyl alcohol	REL-TWA	1000 ppm	US-NIOSH
Exposure Limits	Ethyl alcohol	TLV-STEL	1000 ppm	US-ACGIH
Exposure Limits	Isopropyl alcohol	PEL-TWA	980 mg/m³	US-OSHA
Exposure Limits	Isopropyl alcohol	REL-TWA	400 ppm	US-NIOSH
Exposure Limits	Isopropyl alcohol	TLV-TWA	200 ppm	US-ACGIH
Exposure Limits	Isopropyl alcohol	REL-STEL	500 ppm	US-NIOSH
Exposure Limits	Isopropyl alcohol	TLV-STEL	400 ppm	US-ACGIH
Exposure Limits	Methyl alcohol	PEL-TWA	260 mg/m³	US-OSHA
Exposure Limits	Methyl alcohol	REL-TWA	200 ppm	US-NIOSH
Exposure Limits	Methyl alcohol	TLV-TWA	200 ppm	US-ACGIH
Exposure Limits	Methyl alcohol	REL-STEL	250 ppm	US-NIOSH
Exposure Limits	Methyl alcohol	TLV-STEL	250 ppm	US-ACGIH
Eye Protection	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.			
Skin Protection	Wear chemical resistant gloves and protective clothing.			
Respiratory Protection	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

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Physical State	Liquid
Appearance/Color	Colorless
Odor	Alcohol
Odor Threshold	As low as 1 ppm
Melting/Freezing Point	-114°C
Boiling Point/Range	78°C
Flammability	Flammable
Flammable/Explosive Limits	3.3 - 24.5%
Flash Point	14°C
Auto-Ignition Temperature	365°C (ethanol)
Decomposition Temperature	Data not available
pH	Data not available
Viscosity	Data not available
Solubility (in water)	Miscible
Partition Coefficient (n-octanol/water)	Data not available
Relative Density	.7907
Vapor Pressure	Data not available
Vapor Density	1.6
Evaporation Rate	Data not available
Particle Characteristics	Not applicable.

Section 10: Stability and Reactivity

Reactivity	Based on available data, no reaction hazards have been identified.
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Explodes on contact with permanganic acid, may react violently with acetyl bromide, sulfuric acid and hydrogen peroxide. Vapors can form explosive mixture with air.
Conditions to Avoid	Avoid contact with incompatible materials. Avoid breathing mist or vapors. Keep away from heat, sparks and open flame.
Incompatible Materials	Permanganic acid, chromium trioxide, potassium t-butoxide, ioxxygenyl tetrafluoroborate, trinitromethane, nitroform, oleum, aluminum triisopropoxide, acids, acid anhydrides, halogens, aluminum, phosphorous trichloride, phosgene, acetyl bromide, hydrogen peroxide, sulfuric acid, isocyanates + caustics, bromine, anhydrous lead perchlorate, acid chlorides, acid anhydrides, oxidizing agents, reducing agents, alkali metals, peroxides, bromine pentafluoride, disulfuryl difluoride, acetyl chloride, mercuric nitrate, perchlorates, perchloric acid.
Hazardous Decomposition	Thermal decomposition can produce carbon oxides.

Section 11: Toxicological Information

Acute Toxicity - Oral	ATE: 6777 mg/kg
Acute Toxicity - Dermal	ATE: 146,612 mg/kg
Acute Toxicity - Inhalation	ATE: 20,585 mg/m³
Skin Corrosion/Irritation	This material is not expected to cause skin irritation under normal conditions.
Eye Damage/Irritation	Can cause serious eye irritation.
Respiratory Sensitization	Not expected to cause respiratory sensitization.
Skin Sensitization	Not expected to cause skin sensitization.
Germ Cell Mutagenicity	Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity.
Carcinogenicity	This material has not been identified as a carcinogen by IARC or NTP.
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
STOT Single Exposure	None known.
STOT Repeated Exposure	None known.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	The toxicological properties have not been fully investigated. Data is unavailable, limited or inconclusive.

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Section 12: Ecological Information

Toxicity Values	ATE: 10,141 mg/L
Persistence/Biodegradability	Expected to biodegrade.
Bioaccumulation Potential	BCF values are <10, suggesting that bioaccumulation is low.
Mobility in Soil	Expected to have a very high mobility.
Other Adverse Effects	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

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

Section 15: Regulatory Information

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

Section 16: Other Information

Acronyms	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

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The information contained herein is believed to be accurate and represents the best data currently available to Reagents but does not purport to be all inclusive. This document is intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Reagents makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Reagents will not be responsible for damages resulting from use of or reliance upon this information.