Safety Data Sheet

SECTION 1: Identification

Product Name	Isopropanol, ACS Reagent
	(2-Propanol; Isopropyl Alcohol)
Product Code	C1121500
Other Identifiers	Isopropyl Alcohol; 2-Propanol; Propan-2-ol
Recommended Uses	General Laboratory Reagent/Chemical.
Uses Advised Against	Not intended for drug, food or household use.

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CHEMTREC (USA) 800-424-9300
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SECTION 2: Hazard(s) Identification

Flammable liquids (Category 2)

Serious eye damage/eye irritation (Category 2A)

Specific target organ toxicity, single exposure (Category 3)

Hazards not otherwise classified or covered by GHS

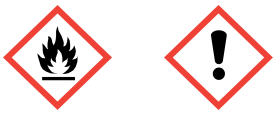
None identified.

Hazard Statements

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary Statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take action to prevent static discharges. Avoid breathing mist or vapors. Wash areas of contact/exposure thoroughly after handling. Use only outdoors or in a well-ventilated area. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Get medical help if you feel unwell. IF eye irritation persists: Get medical help. In case of fire: Use dry chemical, foam or carbon dioxide for extinction. Store in a well-ventilated place. Store locked up. 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 %
Isopropanol	67-63-0	200-661-7	100

SECTION 4: First-Aid Measures

General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	Rinse affected areas with plenty of water. If skin irritation develops, seek medical attention.
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. Store locked up.

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	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
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

Physical State	Liquid
Appearance/Color	Colorless
Odor	Rubbing alcohol
Odor Threshold	As low as 40 ppm
Melting/Freezing Point	-90°C
Boiling Point/Range	82.5°C
Flammability	Flammable
Flammable/Explosive Limits	2 - 12.7%
Flash Point	12°C
Auto-Ignition Temperature	399°C
Decomposition Temperature	Data not available
pH	Data not available
Viscosity	Data not available
Solubility (in water)	Miscible
Partition Coefficient (n-octanol/water)	0.05
Relative Density	.7808
Vapor Pressure	42 hPa at 20°C
Vapor Density	2.07
Evaporation Rate	2.3 (butyl acetate = 1)
Particle Characteristics	Not applicable.

Section 10: Stability and Reactivity

Reactivity	May create peroxides upon prolonged contact with air; this is accelerated in the presence of 2-butanone (methyl ethyl ketone).
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.
Conditions to Avoid	Avoid contact with incompatible materials. Avoid breathing mist or vapors. Keep away from heat, sparks and open flame.
Incompatible Materials	Chromium trioxide, potassium t-butoxide, ioxygenyl tetrafluoroborate, trinitromethane, hydrogen peroxide, barium perchlorate, nitroform, oleum, aluminum triisopropoxide, acids, acid anhydrides, halogens, aluminum, phosphorous trichloride, phosgene.
Hazardous Decomposition	Thermal decomposition can produce carbon oxides.

Section 11: Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 5000 mg/kg
Acute Toxicity - Dermal	LD50 (rabbit) 12800 mg/kg
Acute Toxicity - Inhalation	LC50 (rat) 16000 ppm/8H
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 substance contains a chemical that is not classifiable as to its carcinogenicity to humans in IARC studies.
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
STOT Single Exposure	May cause drowsiness or dizziness.
STOT Repeated Exposure	None known.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	No additional information available.

Section 12: Ecological Information

Toxicity Values	Does not meet the criteria of ecotoxin.
Persistence/Biodegradability	Data is not available for this substance that does not meet the criteria of ecotoxin.
Bioaccumlation Potential	Data is not available for this substance that does not meet the criteria of ecotoxin.
Mobility in Soil	Data is not available for this substance that does not meet the criteria of ecotoxin.
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	UN1219
Proper Shipping Name, Hazard Class	ISOPROPANOL, 3
Packing Group	II
Marine Pollutant	Not classified as a marine pollutant.

Section 15: Regulatory Information

USA TSCA	On or in compliance with the inventory.
USA SARA 302/304	Isopropanol, TPQ 4540 kg (10,000 lbs)
USA SARA 311/312	Isopropanol
USA SARA 313 (TRI)	Does not apply.
Canada DSL/NDSL	On or in compliance with DSL.
California Proposition 65	This product contains no substances 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

Revision Date Issue Date: 10/28/2021

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.