

SECTION 1: Identification

Product Name Iso-Propyl Alcohol, Purified

(2-Propanol; Isopropanol)

Other Identifiers Isopropyl Alcohol; 2-Propanol; Propan-2-ol; 84410-39, 84410-40

Recommended Uses General Laboratory Reagent/Chemical.

Uses Advised Against Not intended for drug, food or household use.

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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.

Signal Word

DANGER

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 (CO2) 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

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

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.

Keep containers tightly closed in a cool and well-ventilated place. Avoid storage near heat, ignition sources or open flame.

 $\label{thm:compatible} \mbox{Protect from physical damage. Store separately from incompatible materials. Store locked up.}$

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 Isopropyl alcohol RFI-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** TLV-STEL 400 ppm **US-ACGIH Exposure Limits** Isopropyl alcohol

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°CBoiling Point/Range82.5°CFlammabilityFlammableFlammable/Explosive Limits2 - 12.7%Flash Point12°C

 Decomposition Temperature
 Data not available

 pH
 Data not available

399°C

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

Auto-Ignition Temperature

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 ReactionsBased 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

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

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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 Contact: SPEX CertiPrep, LLC. 1-732-549-7144