

SECTION 1 · PRODUCT IDENTIFICATION**Manufacturers Address:**1557 Marietta Road
Atlanta, Georgia 30318**Emergency Phone CHEMTREC:** (800) 424-9300**General Information:** (404) 355-8220**Synonyms:** 2-Propanol, Isopropanol**SECTION 2· HAZARDS IDENTIFICATION****GHS Classification:****[Health]**

Acute Toxicity Category 5 (oral/dermal)

Skin: Mild Irritant Category 3

Eye: Mild Irritant Category 2B

[Environmental]

Acute Toxicity Category III

Chronic Toxicity Category IV

[Physical]

Flammable Liquid Category 2

GHS Label:**Symbols:** Flammable**Signal Word:** Warning.**Precautionary Phrases:**

P242 Use only non-sparking tools.

P301+330+331: IF SWALLOWED: Rinse mouth. Do Not induce vomiting.

P352: Wash with soap and water.

Health Phrases:

H302: Harmful if swallowed.

H315+320 Causes Skin and Eye irritation

Physical Phrases:

H226: Flammable liquid and vapor.

H240: Heating may cause an explosion.

Storage Phrases:

P403+233: Store in a well ventilated place. Store in a tightly closed container.

**SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS Number	%WT
Isopropyl Alcohol	67-63-0	100

SECTION 4 · FIRST AID MEASURES**FIRST AID PROCEDURES:****Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.**Skin Contact:** Wash with soap and water. Cold water may be used. Cover the irritated skin with an emollient. Get medical attention if irritation develops.**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

SECTION 5 · FIRE FIGHTING MEASURES

Suitable Extinguishing media: Use Flammable liquid, soluble or dispersed in water. Use dry chemical powder, alcohol foam, water spray or fog.

Hazardous combustion products: Oxides of carbon.

Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire and Explosion Hazards: May burn with a near invisible flame. Vapors can travel to a source of ignition and flash back. Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Spills: Evacuate all non-essential personnel from the spill area. Eliminate all ignition sources. Suitable protective clothing should be worn. Shut off or plug source of spill. Small spills: dilute with water and mop up or absorb with an inert dry material and collect into suitable container. Large Spills: Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Avoid contaminating ground and surface water.

SECTION 7 · STORAGE AND HANDLING

Handling: Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed and tightly sealed when not in use. Use good hygiene practices.

Storage: Store in a segregated and approved area. Store in a cool, dry, ventilated area, away from incompatible substances. Containers should be grounded and bonded. Avoid all possible sources of ignition.

SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Use explosion-proof ventilation equipment. Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

Exposure Limits: Isopropyl Alcohol 400 ppm ACGIH; 400 ppm OSHA

Personal Protective Equipment (PPE):

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

Other Equipment: Eye wash station and shower in close proximity to use are advised.

SECTION 9 · PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: 55 °F

Autoignition Temperature: 750 °F

Boiling Point: 180 °F

Melting Point: -127 °F

Vapor Pressure: 32 mmHg

Vapor Density (Air-1): 2.1

Solubility in Water: Complete

Odor/Appearance: Clear, Colorless Liquid with Alcohol Odor

Flammability Limits: Lower: 2.0 Upper: 12

Specific Gravity: 0.79

Volatile %: 100

Evaporation Rate (BuAc=1): 1.4

Viscosity: Not available.

pH: Not Applicable

Pour Point: N/A

SECTION 10 · STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and temperature conditions.

Conditions to Avoid: Keep away from heat, flame and other potential ignition sources.

Materials to Avoid: Reactive with oxidizing agents, acids, alkalis.

Decomposition Products: When combusted, oxides of carbon and various hydrocarbons.

SECTION 11 · TOXICOLOGICAL INFORMATION**Signs and Symptoms of Overexposure:**

Skin: Contact can cause redness, irritation and drying. Severity depends on the amount and duration of exposure.

Eyes: Vapors may be irritating to the eyes. Liquid contact will cause stinging and tearing.

Inhalation: Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression.

Ingestion: If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. Aspiration of this material into the lungs may result in damage or death.

Target Organ Effects: Central nervous system, respiratory system, eyes, skin.

Acute oral toxicity:

Isopropyl Alcohol: LD50 mouse: 3600 mg/kg

Acute inhalation toxicity:

Isopropyl Alcohol: LC50 rat: 16000 mg/kg, 8 hours

Acute dermal toxicity:

Isopropyl Alcohol: LD50 rabbit: 12800 mg/kg

Subchronic/Chronic Toxicity: Not classified.

SECTION 12 · ECOLOGICAL INFORMATION**Aquatic Toxicity:**

LC50: 64000 mg/l, 96 hours, Fathead Minnow

Bio-accumulative potential: The product itself and its products of degradation are not toxic. This product is readily biodegradable.

Mobility: Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects

SECTION 13 · DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 · TRANSPORTATION**U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):**

Proper Shipping Name: Isopropyl Alcohol
Hazard Class: 3, Flammable Liquid
UN Number: 1219
Packaging Group: 2
Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION**US FEDERAL REGULATIONS****Comprehensive Environmental Response and Liability Act (CERCLA)**

None of the chemicals in this material have an RQ.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate (Acute) Health Hazard.

Delayed (Chronic) Health Hazard.

Fire Hazard.

SARA Section 313 (40 CFR 372) Hazard Categories:

Isopropyl Alcohol CAS 67-63-0 is subject to reporting.

Clean Water Act: None of the chemicals in this product are listed.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 - OTHER INFORMATION

MSDS Creation Date: June 2013

NFPA Ratings: **HEALTH: 1** **FLAMMABILITY: 3** **REACTIVITY: 0**

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