

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: IP1005-A, IP1005-B, IP1005-C, IP1005-D, IP1005-P, IP1005-Q, IP1005-G, IP1005-T
Product Identity: Isopropanol

Chemical Family: No Information Available

Synonyms: No Information Available

Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

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Section 2 – Hazard Identification

Emergency Overview

Flammable liquid. If ingestion, give large quantities of water and induce vomiting. Get medical attention. May cause dryness and cracking of the skin. May cause irritation to the respiratory tract, eyes and skin. Wash areas of contact. Get medical attention if irritation develops.

Appearance: clear, colorless liquid **Odor:** Alcohol

Target Organs: respiratory system, eyes, skin, central nervous system.

Potential Health Effects/ Routes of Exposure:

Eyes: May cause irritation, burning, pain, and possible damage to the cornea and conjunctiva.

Skin: May cause irritation, redness, pain.

Ingestion: May cause nausea, diarrhea, vomiting, cramps.

Inhalation: May cause irritation to the upper respiratory tract, eyes, throat, mucous membrane and nose. High concentrations can have narcotic effect.

Chronic Effect / Carcinogenicity None (IARC, NTP, OSHA)

Aggravated Medical Conditions No information available

These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Isopropanol, CAS# 67-63-0

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: Induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: 13 C **Autoignition Temperature** No Information Available

Explosion Limits Upper No Information Available **Lower** No Information Available

Extinguishing Media: Water, dry chemical, foam, or Carbon Dioxide. Water spray can be used to dilute spills to nonflammable mixtures.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards Vapors may ignited and cause explosion if in confined space. Vapors can flow across ignition source and flashback.

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment. Use water to keep surrounding containers cool and flush non-ignited spills away from fire.

Hazardous Combustion Products: No information Available

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: No Information Available

NFPA Rating: (estimated) Health: 1; Flammable: 3; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable material and place in chemical waste container. Ventilate area of spill. Use non-sparking equipment. Have fire extinguishing agent available in case of fire. Always obey local regulations. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes. Empty containers can still be hazardous since they retain product residue.

Storage: Keep container tightly closed in a cool, dry area. Protect from freezing and physical damage. Store in secure, flammable storage area away from sources of ignition.

Section 8 – Exposure Controls, Personal Protection

Isopropanol, CAS# 67-63-0, ACGIH TLV: 983mg/m³, OSHA PEL: 980mg/m³

Engineering Measures/ General Hygiene: Local/general exhaust is recommended. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate. If exposure limit is exceeded, a fullface respirator with organic cartridge may be worn.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: clear, colorless liquid

Odor: Alcohol

Boiling Point: Approx 82 C

Melting Point: Below -88 C

Vapor Density: No Information Available

Evaporation Rate: No Information Available

pH: No Information Available

Flammability: No Information Available

Solubility: Infinite

available

Relative Density: No Information Available

% Volatility: No Information Available

Specific Gravity: Approx 0.8

Vapor Pressure: Approx 33 at 20 C

Flash Point: No Information Available

Coefficient of water/oil distribution: Not Available

Odor Threshold: Not Available

Decomposition Temperature: No Information Available

Partition Coefficient n-octanol/water: No data

Molecular Weight: No Information Available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatible Materials: Strong oxidizers, heat, sparks, open flames. Will attack some forms of rubber, plastics and coatings. May react with metallic aluminum and generate hydrogen gas.

Conditions to Avoid: No Information Available

Hazardous Decomposition Products: Toxic oxides of carbon, acrid and irritating fumes.

Hazardous Polymerization: Does not occur

Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2
LD50 orl-rat: 5045mg/kg LC50 inhalation-rat: 16000ppm/8hrs
Irritation: No Information Available
Toxicologically Synergistic: No Information Available
Chronic Exposure
Carcinogenicity No information available
Sensitization No information available.
Mutagenic Effects No information available.
Reproductive Effects No information available.
Developmental Effects (Immediate/Delayed) No information available.
Teratogenicity No information available.
Other Adverse Effects No information available.
Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: Isopropanol has acute toxicity with effects of death in animals and low growth rates and death in plants. Chronic toxic effects, may be shortened life span, lower fertility, reproductive problems, and changes in appearance and/or behavior in animals.
Persistence and Degradability: No Information Available **Mobility:** No Information Available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable material and place in chemical waste container. Ventilate area of spill. Use non-sparking equipment. Have fire extinguishing agent available in case of fire. All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT – UN1219, Isopropanol, 3, II

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are considered hazardous by OSHA.
Canada DSL: These chemicals are listed on Canada's DSL list.
TSCA: The components of this solution are listed on the TSCA Inventory
SARA Title III Section 313: Not Applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: No Information Available
WHMIS: B-2: Flammable and Combustible Material. Flammable Liquid.
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his/her own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.