

## MATERIAL SAFETY DATA SHEET

### ISOPROPYL ALCOHOL

#### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**In case of Emergency call CHEMTREC 1-800-424-9300**

**Supplier:** BHS MARKETING  
1717 East Fargo  
Nampa, ID 83687  
Phone: 208-466-8437  
877-247-6584

**CAS Number:** 67-63-0  
**Synonyms:** Isopropanol; sec-propyl alcohol; sec-propanol; dimethylcargbinol  
**Formula:** (CH<sub>3</sub>)<sub>2</sub>CHOH

#### SECTION 2 – TRANSPORTATION DATA

US Department of Transportation  
- 49 CFR

**Proper Shipping Name:** Isopropanol  
**UN Number:** UN1219  
**Hazard Class:** 3  
**Packing Group:** II  
**Labels:** Flammable Liquid

#### SECTION 3 – PHYSICAL / CHEMICAL DATA

**Appearance:** Clear, colorless liquid  
**Odor:** Rubbing alcohol  
**Boiling Point:** 82 °C  
**Melting Point:** -89 °C  
**Vapor Pressure:** 44 @ 25 °C (mm Hg)  
**Vapor Density (Air = 1):** 2.1  
**Specific Gravity:** 0.79 @ 20 °C / 4 °C  
**Solubility in Water:** Miscible in water  
**Volatile by Volume:** 100% @ 21 °C  
**Evaporation Rate:** 2.83 (BuAc = 1)

**SECTION 4 – REACTIVITY DATA**

<b>Stability:</b>	Stable
<b>Incompatibility:</b>	Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, isocyanates.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide and carbon monoxide may form when heated to decomposition.
<b>Conditions to Avoid:</b>	Heat, flame, ignition sources and incompatibles.
<b>Hazardous Polymerization:</b>	Will not occur.

**SECTION 5 – FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point:</b>	12 °C
<b>Auto Ignition Temperature:</b>	399 °C
<b>Flammable Limits:</b>	LEL: 2.0                      UEL: 12.7
<b>Fire Extinguishing Spray:</b>	Water spray, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire-exposed containers cool, dilute spills and nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.
<b>Explosion:</b>	Above flash point, vapor air mixtures are explosive within flammable limits noted above. Contact with strong oxidizers may cause fire or explosion. Vapor can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.
<b>Special Information:</b>	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand for other positive pressure mode.

**SECTION 6 – PRECAUTIONS FOR SAFE HANDLING AND USE**

<b>Steps To Be Taken in Case Material is Spilled or Released:</b>	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified on section 7. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.
<b>Disposal Method:</b>	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**Handling and Storage:** Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues.

## **SECTION 7 – HEALTH HAZARD DATA**

### Potential Health Effects:

**Inhalation:** Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

**Ingestion:** Can cause drowsiness, unconsciousness, and death. Gastrointestinal pain, cramps, nausea, vomiting, and diarrhea may also result. The single lethal dose for a human adult = about 250 mls (8 ounces).

**Skin Contact:** May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.

**Eye Contact:** Vapors cause eye irritation. Splashes caused severe irritation, possible corneal burns and eye damage.

### First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:** Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes. Call a physician if irritation develops.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper Eyelids occasionally. Get medical attention immediately.

### Personal Protective Equipment

**Sin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene and nitrile rubber are recommended materials.

**Eye Protection:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**ADDITIONAL INFORMATION**

Always comply with all applicable international, federal, state and local regulations regarding the transportation, storage, use and disposal of this chemical.

Due to the changing nature of regulatory requirements, the regulatory information listed in the sections in this document should not be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine all required reporting requirements.

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