

00623-1006

Product #: 59998 Name: ISOPROPANOL 99% Desc:

V# 1888

Material Safety Data SheetMSDS Revision Date: 12-04-2008
Page 1 of 7**BRENNTAG****1. Product and Company Identification**Product Identity: Isopropyl Alcohol 99%
Chemical Formula: (CH₃)₂CHOH
Molecular Weight: 60.10
Synonyms: 2-Propanol; sec-propyl alcohol; isopropanol; sec-propanol; dimethylcarbinolTechnical Information: 270-830-1200
Emergency Number: 800-424-9300 (CHEMTREC)
Emergency Number: 703-5273887 (International)

Company: DISTRIBUTED BY BRENNTAG

| | | | |
|--|---|---|--|
| Brenntag Great Lakes LLC. 4420 N. Harley Davidson Ave. Wauwatosa, WI 53225 | Brenntag Mid-South Inc. 1405 Hwy 138 W Henderson, KY 42420 | Brenntag Northeast, Inc. 81 West Hurler Lane Reading, PA 19605 | Brenntag Specialties, Inc. 1000 Coolidge Street South Plainfield, NJ 07080 |
| Brenntag Southeast, Inc. 2000 East Pettigrew Street Durham, NC 27703 | Brenntag Southwest, Inc. 610 Fisher Road Longview, TX 75604 | Brenntag Pacific, Inc. 10747 Patterson Place Santa Fe Springs, CA 90670 | Coastal Chemical Co., LLC PO Box 829 Abbeville, LA 70511 |

2. Hazards Identification**Emergency Overview****WARNING!****FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN.****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 ml (8 ounces).**Skin Contact:** May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.**Eye Contact:** Irritant may cause redness and pain. Splashes cause severe irritation, possible corneal burns and eye damage.**Chronic Exposure:** Chronic exposure may cause skin effects.**Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorders or impaired liver, kidney, or pulmonary function may be more susceptible to the effects of this agent.

Product #: 59998 Name: ISOPROPANOL 99% Desc: _____

Material Safety Data SheetMSDS Revision Date: 12-04-2008
Page 2 of 7**BRENNTAG** **3. Composition/Information on Ingredients**

| CAS# | Chemical Name | Percent by Weight |
|---------|-------------------|-------------------|
| 67-63-0 | Isopropyl Alcohol | 99 - 100% |

4. First Aid Measures

Inhalation: If a person breathes in chemical, remove exposed person promptly to fresh air. If breathing has stopped, perform artificial respiration. Oxygen should be provided for a person having difficulty breathing (but only administered by an authorized individual) until the person is able to breath easily by themselves. Keep the affected person warm and at rest. Get medical attention as soon as possible.

Ingestion: If swallowed, immediately call a poison control center or doctor. Do not induce vomiting unless told not to do by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

Skin Contact: Promptly wash the contaminated skin using soap or mild detergent and water. If chemical, or solution containing chemical, soaks through clothing, remove the clothing promptly and wash the skin using soap or mild detergent and water for at least 15 minutes. Medical attention should be given as soon as possible for all burns, regardless of how minor they seem.

Eye Contact: Flush eyes with large amounts of water for at least 15 minutes, lifting the upper and lower lids at periodic intervals to insure contact of water with all accessible tissue of the eyes and lids. Medical attention should be given as soon as possible, preferably an eye specialist.

5. Fire Fighting Measures

Fire: Flash point: 12C (54F) CC; Autoignition temperature: 399C (750F); Flammable limits in air % by volume: lfl: 2.0; uel: 12.7.

Explosion: Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Contact with strong oxidizers may cause fire or explosion. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Water spray, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.

Product #: 59998 Name: ISOPROPANOL 99% Desc:

Material Safety Data SheetMSDS Revision Date: 12-04-2008
Page 3 of 7**BRENNTAG**

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. 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 (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. 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. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, and any area where the fire hazard may be acute. Store in tightly closed containers. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. 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. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition; they may explode and cause injury or death. Small quantities of peroxides can form on prolonged storage. Exposure to light and/or air significantly increases the rate of peroxide formation. If evaporated to a residue, the mixture of peroxides and isopropanol may explode when exposed to heat or shock.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: For Isopropyl Alcohol (2-Propanol): -OSHA Permissible Exposure Limit (PEL): 400 ppm (TWA). -ACGIH Threshold Limit Value (TLV): 200 ppm (TWA), 400 ppm (STEL), A4 - not classifiable as a human carcinogen.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, a Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If the exposure limit is exceeded, and engineering

Product #: 59998 Name: ISOPROPANOL 99% Desc: _____

Material Safety Data Sheet

MSDS Revision Date: 12-04-2008

Page 4 of 7

BRENNTAG 

controls are not feasible, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. This compound possibly exists in both particulate and vapor phase.

Skin Protection:

Wear appropriate protective neoprene and nitrile rubber gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure.

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.

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid.
Odor: Rubbing alcohol.
Odor Threshold: No Information Found
Physical State: Liquid
PH: No information found.
Melting Point: -89C (-128F)
Boiling Point: 82C (180F)
Auto-ignition Temperature: 399C (750F)
Flash Point: 12C (54F) CC
Upper Explosive Limit: 12.7
Lower Explosive Limit: 2.0
Vapor Pressure: 44 @ 25C (77F)
Vapor Density: 2.1
Density: 0.82 @ 20C/4C
Solubility in Water: Miscible in water.
Evaporation Rate: 2.83
% Volatiles by volume @ 21C (70F): 100

Product #: 59998 Name: ISOPROPNOL, 99% Desc:

Material Safety Data Sheet

MSDS Revision Date: 12-04-2008

Page 5 of 7

BRENNTAG**10. Stability and Reactivity**

Chemical Stability: Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

Incompatible Materials: Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium tert-butoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum and perchloric acid.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Polymerization: Will not occur.

11. Toxicological Information

Oral rat LD50: 5045 mg/kg, skin rabbit LD50: 12.8 gm/kg; inhalation rat LC50: 16,000 ppm/8-hour; investigated as a tumorigen, mutagen, reproductive effector.

WARNING!

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Material Safety Data Sheet

MSDS Revision Date: 12-04-2008

Page 6 of 7

BRENNTAG **12. Ecological Information****Environmental Fate:**

When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal 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.

14. Transport Information**US DOT (ground)**

Proper Shipping Name: ISOPROPANOL
Hazard Class: 3
UN/NA: UN 1219
Packing Group: PG II
Marine Pollutant: No
RQ Amount:

IMDG (water)

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Material Safety Data SheetMSDS Revision Date: 12-04-2008
Page 7 of 7**BRENNTAG**Packing Group: PG II
Marine Pollutant: No
RQ Amount:**15. Regulatory Information**

| Name | CAS | TSCA | SARA 302 | SARA 304 | SARA 313 | CERCLA |
|-------------------|---------|------|----------|----------|----------|--------|
| Isopropyl Alcohol | 67-63-0 | YES | NO | NO | NO | NO |

16. Other Information

This MSDS is provided as an information resource only. It should not be taken as a warranty or representation for which Brenntag assumes legal liability. While Brenntag believes the information contained herein is accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its identity. The buyer assumes all responsibility for using and handling the product in accordance with applicable international, federal, state, and local regulations.

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