

Section 1. Product and Company Identification

**Product Name** Isopropyl Alcohol  
**CAS Number** 67-63-0

**Parchem - fine & specialty chemicals**  
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**New Rochelle, NY 10801**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 2): H225

Eye irritation (Category 2A): H319

Specific target organ toxicity - single exposure (Category 3) Central nervous system: H336

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard statements**

H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

**Precautionary statements**

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264: Wash skin thoroughly after handling.  
 P271: Use only outdoors or in a well-ventilated area.  
 P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P303 + P361 + P353: If on skin (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304 + P340: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338: If In Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312: Call a Poison Center or doctor/ physician if you feel unwell.  
 P337 + P313: If eye irritation persists: Get medical advice/ attention.  
 P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
 P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235: Store in a well-ventilated place. Keep cool.  
 P405: Store locked up.  
 P501: Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** May form explosive peroxides.

Section 3. Composition / Information on Ingredients

**Common Name** Isopropyl Alcohol  
**Synonym(s)** 2-Propanol, sec-Propyl alcohol, Isopropanol  
**Formula** C<sub>3</sub>H<sub>8</sub>O  
**CAS Number** 67-63-0

COMPONENT	CAS NUMBER	CONCENTRATION
Isopropyl Alcohol	67-63-0	≤ 100%

Section 4. First Aid Measures

**Description of first-aid measures**

**General advice:** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling and/or in section 11.



**Indication of any immediate medical attention and special treatment needed:** No data available

Section 5. Firefighting Measures

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** Use water spray to cool unopened containers

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**Reference to other sections:** For disposal see section 13.

Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition -No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas. Hygroscopic

Section 8. Exposure Controls / Personal Protection

**Control parameters**

**Components with workplace control parameters**

Component	CAS No.	Value	Control Parameters	Basis
2-Propanol	67-63-0	TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)

	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices Not classifiable as a human carcinogen		
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices Not classifiable as a human carcinogen		
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices Not classifiable as a human carcinogen		
		STEL	400.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices Not classifiable as a human carcinogen		
		TWA	400.000000 ppm 980.000000 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m <sup>3</sup> is approximate		
		TWA	400.000000 ppm 980.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		ST	500.000000 ppm 1,225.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits

#### Biological occupational exposure limits

Component	CAS No.	Parameters	Value	Biological Specimen	Basis
2-Propanol	67-63-0	Acetone	40.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

#### Exposure controls

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Section 9. Physical and Chemical Properties

**Form:** Liquid

**Color:** Colorless

**Odor:** Alcohol-like

**Odor Threshold:** No data available

**pH:** No data available

**Melting point/freezing point:** Melting point/range: -89.5°C (-129.1°F) - lit.

**Initial boiling point and boiling range:** 82°C (180°F) - lit.

**Flash point (Closed Cup):** 12.0°C (53.6°F)

**Evaporation rate:** 3.0

**Flammability (solid, gas):** No data available

### Upper/lower flammability or explosive limits

**Upper explosion limit:** 12.7% (V)

**Lower explosion limit:** 2% (V)

**Vapor pressure:** 43.2 hPa (32.4 mmHg) at 20.0°C (68.0°F). 58.7 hPa (44.0 mmHg) at 25.0°C (77.0°F)

**Vapor density:** No data available

**Relative density:** 0.785 g/cm<sup>3</sup> at 25°C (77°F)

**Water solubility:** Completely soluble

**Partition coefficient: n-octanol/water:** log Pow: 0.05

**Auto-ignition temperature:** 425.0°C (797.0°F)

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

**Other safety information**

**Surface tension:** 20.8 mN/m at 25.0°C (77.0°F)

Section 10. Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year. Stable under recommended storage conditions.

**Possibility of hazardous reactions:** Vapors may form explosive mixture with air.

**Conditions to avoid:** Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatible materials:** Oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids

**Hazardous decomposition products:**

**Other decomposition products:** No data available

**In the event of fire:** see section 5

Section 11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

**LD50 Oral:** - Rat - 5,045 mg/kg

**Remarks:** Behavioral: Altered sleep time (including change in righting reflex). Somnolence (general depressed activity).

**LC50 Inhalation:** Rat - 8 h - 16000 ppm

**LD50 Dermal:** Rabbit - 12,800 mg/kg

**Skin corrosion/irritation**

**Skin:** Rabbit

**Result:** Mild skin irritation

**Serious eye damage/eye irritation**

**Eyes:** Rabbit

**Result:** Eye irritation - 24 h

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity:** This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**IARC:** 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)



**NTP:** No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** Inhalation, Oral - May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

#### Additional Information

**RTECS:** NT8050000

Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to:, Lung oedema, Pneumonia

**To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.**

Kidney - Irregularities - Based on Human Evidence

#### Section 12. Ecological Information

##### Toxicity

##### Toxicity to fish

**LC50:** Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h

##### Toxicity to daphnia and other aquatic invertebrates

**EC50:** Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h

**Immobilization EC50:** Daphnia magna (Water flea) - 6,851 mg/l - 24 h

##### Toxicity to algae

**EC50:** Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h

**EC50:** Algae - > 1,000.00 mg/l - 24 h

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No bioaccumulation is to be expected (log Pow <= 4).

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** No data available



Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT (US)**

**UN number:** 1219

**Class:** 3

**Packing group:** II

**Proper shipping name:** Isopropanol

**Reportable Quantity (RQ):** N/A

**Poison Inhalation Hazard:** No

**IMDG**

**UN number:** 1219

**Class:** 3

**Packing group:** II

**EMS-No:** F-E, S-D

**Proper shipping name:** Isopropanol

**IATA**

**UN number:** 1219

**Class:** 3

**Packing group:** II

**Proper shipping name:** Isopropanol

Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 Components:** The following components are subject to reporting levels established by SARA Title III, Section 313; 2-Propanol (CAS No. 67-63-0)

**SARA 311/312 Hazards:** Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right to Know Components**

2-Propanol (CAS No. 67-63-0)

**Pennsylvania Right to Know Components**

2-Propanol (CAS No. 67-63-0)

**New Jersey Right To Know Components**

2-Propanol (CAS No. 67-63-0)





**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**HMIS Rating**

**Health hazard:** 2\*

**Flammability:** 3

**Physical Hazard:** 0

**NFPA Rating**

**Health hazard:** 2

**Fire Hazard:** 3

**Reactivity Hazard:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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