

**Section 1: Identification**

|                            |   |
|----------------------------|---|
| <b>Product Name</b>        | Isopropyl Alcohol 99%   |
| <b>Commercial Name</b>     | N/A   |
| <b>Product Use</b>         | General use solvent   |
| <b>Restrictions On Use</b> | N/A   |
| <b>Product Code</b>        | 30-5019   |
| <b>Company</b>             | <p>PCCA<br/>9901 South Wilcrest<br/>Houston, TX 77099<br/>Phone: 1-800-331-2498<br/>Fax: 1-800-874-5760</p> |
|                            | <p>In case of emergency contact:<br/><b>CHEMTREC (24hr) 1-800-424-9300</b></p>                              |

**Section 2: Hazard(s) Identification**

**OSHA Haz Com:** Eye irritation (Category 2) Flammable Liquids (Category 2) Specific target organ toxicity - single exposure (Category 3) OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant Target Organs: Cardiovascular system, Gastrointestinal tract, Kidney, Liver, Nerves

**CFR 1910.1200**

**Signal Word** DANGER

**Hazard Statement(s)** Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

**Pictogram(s) or Symbol(s)**


**Precautionary Statement(s):**

|                   |  |
|-------------------|--|
| <b>Prevention</b> | P261 Avoid breathing dust/fumes/gas/mist/vapors. P240 Ground/bond container and receiving equipment. P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking. P233 Keep container tightly closed. P102 Keep out of reach of children. P243 Take precautionary measures against static discharge. P241 Use explosion-proof electrical, ventilating, and lighting equipment. P242 Use only non-sparking tools. P271 Use only outdoors or in a well-ventilated area. P264 Wash hands thoroughly after handling. P280 Wear protective gloves and eye and face protection.  |
| <b>Response</b>   | P312 Call a POISON CENTER or doctor/ physician if you feel unwell. P337 + P313 If eye irritation persists: Get medical attention. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. |
| <b>Storage</b>    | 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.  |
| <b>Disposal</b>   | P501 Dispose of contents and container to an approved waste disposal plant.  |

**Section 3: Composition/Information on Ingredients**

|                          |   |
|--------------------------|---|
| <b>Substance/Mixture</b> | Substance   |
| <b>Components</b>        | Isopropyl Alcohol   |
| <b>% By Weight</b>       | 99%   |
| <b>CAS#</b>              | 67-63-0   |
| <b>Molecular Weight</b>  | N/A   |
| <b>Chemical Formula</b>  | N/A   |
| <b>Synonym(s)</b>        | Isopropanol; Isopropyl Alcohol; 2-Propanol; sec-propyl alcohol; dimethylcarbinol; sec-propanol; Rubbing alcohol; 1-Methylethanol; IPA 99% |

| <b>Mixtures</b> | <b>Name</b>       | <b>CAS#</b> | <b>% by Weight</b> | <b>TLV/PEL</b> | <b>LC50/LD50</b> |
|-----------------|-------------------|-------------|--------------------|----------------|------------------|
|                 | Isopropyl Alcohol | 67-63-0     | 100%               | N/A            | N/A              |

**Section 4: First-Aid Measures**

|                         |  |
|-------------------------|--|
| <b>Inhalation</b>       | Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.  |
| <b>Skin Contact</b>     | Wash skin with soap and copious amounts of water. Seek medical attention   |
| <b>Eye Contact</b>      | Thoroughly flush eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention             |
| <b>Ingestion</b>        | DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual. |
| <b>Symptoms/Effects</b> |  |
| <b>Acute</b>            | N/A  |
| <b>Delayed</b>          | N/A  |

**Immediate Medical Attention**

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Section 5: Fire-Fighting Measures**
**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**Unsuitable Extinguishing Media**

N/A

**Products of Combustion**

Carbon oxides expected to be the primary hazardous combustion product

**Firefighters Special Equipment and Precautions**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

**Section 6: Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures: Do not inhale 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. Environmental precautions: Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains. Methods and materials for containment and cleaning up: Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.

**Section 7: Handling and Storage**

Precautions for safe handling: Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Section 8: Exposure Controls/Personal Protection**

|                             |   |           |      |         |                   |            |     |         |
|-----------------------------|---|-----------|------|---------|-------------------|------------|-----|---------|
| <b>Exposure Limits</b>      | Component   | Source    | Type | Value   | Isopropyl Alcohol | US (ACGIH) | TWA | 200 ppm |
|                             | Isopropyl Alcohol   | US(ACGIH) | STEL | 400 ppm | Isopropyl Alcohol | US (OSHA)  | TWA | 400 ppm |
| <b>Engineering Controls</b> | General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code. |           |      |         |                   |            |     |         |

**Personal Protection**

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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). Hand 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. Eye protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU). Maintain eye wash fountain and quick-drench facilities in work area. Skin and body protection: Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Section 9: Physical and Chemical Properties**

|  |   |  |                                 |
|--|---|--|---------------------------------|
| <b>Appearance</b>                                | Liquid. Colorless.  |  |                                 |
| <b>Odor</b>                                      | alcohol-like  |  |                                 |
| <b>Odor Threshold</b>                            | N/A   |  |                                 |
| <b>Melting Point</b>                             | N/A   | <b>pH</b>                                | N/A                             |
| <b>Freezing Point</b>                            | -89.5°C (-129.1 °F)   | <b>Vapor Pressure</b>                    | 43.2 hPa (32.4 mmHg) at 20.0 °C |
| <b>Boiling Point/Range</b>                       | 83°C (181°F)  | <b>Vapor Density</b>                     | 2.1                             |
| <b>Decomposition temperature</b>                 | N/A   | <b>Viscosity</b>                         | N/A                             |
| <b>Partition Coefficient:</b><br>n-octanol/water | log Pow: 0.05   | <b>Evaporation Rate</b>                  | 3.0                             |
| <b>Flash Point</b>                               | 12°C (53°F) - Closed Cup  | <b>Autoignition temperature</b>          | 399°C (750°F)                   |
| <b>Flammability</b>                              | N/A   | <b>Flammability or Explosive Limits:</b> |                                 |
|  |   | <b>Lower</b>                             | 12.7% (V)                       |
|  |   | <b>Upper</b>                             | 2.0% (V)                        |
| <b>Solubility(ies)</b>                           | completely water soluble  |  |                                 |
| <b>Other</b>                                     | Relative Density 0.785 g/cm3 at 25°C (77°F) Molecular Weight (ISOPROPYL ALCOHOL) 60.1 g/mol |  |                                 |

**Section 10: Stability and Reactivity**

|   |  |
|---|--|
| <b>Reactivity</b>                       | N/A  |
| <b>Chemical Stability</b>               | Stable under ordinary conditions of use and storage. Hygroscopic               |
| <b>Hazardous Polymerization</b>         | Vapors may form explosive mixture with air.                                    |
| <b>Conditions to Avoid</b>              | Heat, flames, and sparks. Extreme temperatures and direct sunlight             |
| <b>Incompatible Materials</b>           | Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids     |
| <b>Hazardous Decomposition Products</b> | Hazardous decomposition products formed under fire conditions. - Carbon oxides |

**Section 11: Toxicological Information**
**RTECS** NT8050000

**Acute Toxicity**

LC50 (vapor) Rat 19,000 ppm 8 hours LD50 (oral) Rat 4,396 mg/kg LD50 (skin) Rabbit 12,870 mg/kg

**Skin Corrosion/Irritation**

Eyes: Rabbit - Irritating to eyes - 24 hours, Eyes (ISOPROPANOL):Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant at 800 ppm. Skin: Moderate skin irritant

**Serious Eye Damage/Irritation**

N/A

**Respiratory or Skin Sensitization**

N/A

**Germ Cell Mutagenicity**

N/A

**Carcinogenicity**

IARC: Group 3: Not classifiable as to its carcinogenicity to humans. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component 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 component 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**

N/A

**Routes of Entry**

Eyes. Skin.

**Symptoms Related to Exposure**

N/A

**Potential Health Effects**

N/A

**Target Organ(s)**

Eyes Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corner of the eye.

**Section 12: Ecological Information****Ecotoxicity**

Ecotoxicity (aquatic and terrestrial, where available): Acute Fish Toxicity (ISOPROPANOL) LC50 / 96 hours Pimephales promelas: 9,640 mg/L Toxic to Daphnia and Other Aquatic Invertebrates EC50 / 24 h / Water Flea - 5,102 mg/L Toxicity to Aquatic Plants (ISOPROPANOL) EC50 / 72 hours Scenedesmus subspicatus > 1,000 mg/L

**Persistence and Degradability**

N/A

**Bioaccumulative Potential**

N/A

**Mobility in Soil**

N/A

**Other Adverse Effects**

N/A

**Section 13: Disposal Considerations****Waste Disposal**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Disposal of Container**

N/A

**Other Considerations**

N/A

**Section 14: Transport Information****DOT Classification**

UN number UN1219 UN proper shipping name Isopropanol Transport hazard class(es) 3 Packing group (if applicable) II IMDG UN-Number: UN1219 Class: 3 Packing Group: II EMS-No: F-E, S-D Proper shipping name: ISOPROPANOL Marine pollutant: No IATA UN-Number: UN1219 Class: 3 Packing Group: II Proper shipping name: Isopropanol

**Section 15: Regulatory Information****Regulations**



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Isopropyl Alcohol 99%

30-5019

OSHA Hazards Flammable liquid, Target Organ Effect, Irritant All ingredients are on the following inventories or are exempted from listing Country Notification Australia AICS Canada DSL China IECs European Union EINECS Japan ENCS/ISHL Korea ECL New Zealand NZIoC Philippines PICCS United States of America TSCA SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA) +1.703.527.3887 (INT) SDS: 312 Revision Date: 04.19.17 Revision Number: 4.0 Initials: EF Page 10 of 11 SARA 313 Components The following components are subject to reporting levels established by SARA title III, Section 313: ISOPROPYL ALCOHOL (CAS# 67-63-0) Revision date: 1987-01-01. SARA 311/312 Hazards Acute Health Hazard Chronic Health Hazard Fire Hazard CERCLA No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA Massachusetts Right To Know Components Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01 Pennsylvania Right To Know Components Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01 New Jersey Right To Know Components Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01 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.

### Other

N/A

### Section 16: Other Information

ield Global USA, Inc. believes that the information on this SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, Greenfield Global USA, Inc. does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable. Information is correct to the best of our knowledge at the date of the SDS