

**1. CHEMICAL NAME AND COMPANY IDENTIFICATION**

**Formulated/Manufactured By:** Tower Products, Inc.  
2703 Freemansburg Avenue  
Easton, PA 18045

**Information Telephone Number:** 1-800-527-8626 or 610-253-6206

**For Chemical Spill Emergency Call:** CHEMTREC: 1-800-424-9300

**Product Name:** ISOPROPYL ALCOHOL 99%

**CAS Number:** 67-63-0

**2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable Liquids (Category 2)  
Specific Target Organ Toxicity - Single Exposure (Category 3)  
Skin Irritation (Category 3)  
Eye Irritation (Category 2A)

**GHS label elements, including hazard and precautionary statements**

Pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

H225: HIGHLY FLAMMABLE LIQUID & VAPOR.  
H336: MAY CAUSE DROWSINESS OR DIZZINESS.  
H319: CAUSES SERIOUS EYE IRRITATION.  
H316: CAUSES MILD SKIN IRRITATION.

Precautionary statement(s)

Prevention:

P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES.  
NO SMOKING.  
P261: AVOID BREATHING FUME/DUST/GAS/MIST/VAPORS/SPRAY.  
P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION  
P264: WASH SKIN THOROUGHLY AFTER HANDLING.

Response:

P370+P378: IN CASE OF FIRE: USE DRY CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH.  
P304+P340: IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.  
P303+P361+P353 IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER (OR SHOWER).  
P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

Storage:

P403+P233+P405: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. STORE LOCKED UP.

**Disposal:**

P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL REGULATIONS.

**HMIS Classification**

Health Hazard: 1

Flammability: 3

Physical Hazard: 0

Personal Protection: B

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component(s)</u>	<u>CAS Number</u>	<u>Concentration (weight)</u>
Isopropyl Alcohol	67-63-0	100%

**4. FIRST AID MEASURES**

**Exposure Routes:** Inhalation, Ingestion, Skin

**Eye Contact:** Flush with large volume of water for at least 15 minutes. Get immediate medical attention.

**Inhalation:** Remove to fresh air. Get immediate medical attention.

**Ingestion:** Get immediate medical attention. Do not induce vomiting.

**Skin Contact:** Flush area with large amounts of water for at least 15 minutes. Get immediate medical attention.

**5. FIRE-FIGHTING MEASURES**

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

**Specific Hazards:** Flammable Liquid. Upon combustion, the product may form carbon monoxide and other organic compounds. Product containers may rupture from vapor pressure when exposed to heat from fire; use water spray to cool fire-exposed containers and structures.

**Unusual Fire and Explosion Hazards:** Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heater, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapors from this material may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively. This material may produce a floating fire hazard.

**Special protective equipment for fire-fighters:** Use self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions and protective equipment:**

**Respiratory Protection:** Use supplied air equipment or respirators with proper NIOSH approved cartridges.

**Protective Gloves:** Impervious or chemical resistant gloves (consult safety equipment supplier).

**Eye Protection:** Chemical splash goggles recommended against potential eye contact.

**Other Protective Clothing and Equipment:** Safety shoes and aprons recommended.

**Methods for Clean-Up:**

**Minor Spills:** Absorb material with ground clay, vermiculite, sand, or similar absorbent material and place into containers for disposal according to local and/or state regulations.

**Major Spills:** Dike and contain spill. Eliminate potential sources of ignition, and shut off source of spill if possible. Remove liquid by chemical vacuum, absorbent material, or other safe and approved methods, and place into containers for disposal according to local and/or state regulations. Flush area with water to remove residue, and remove flushed solutions as above.

**7. HANDLING AND STORAGE**

**Handling:** Flammable Liquid - empty containers can be hazardous and contain explosive vapors. Do not reuse containers. Ground fixed equipment. Bond and ground transfer equipment and containers. Use proper bonding and grounding during product transfer as per NFPA 77 Other Precautions in Section IX.

**Storage:** Store in a cool, dry, ventilated area, away from incompatible substances. Keep away from heat, sparks, flame. Keep containers closed when not in use. Vapors may settle in low or confined areas, or travel a long distance to an ignition source and flash back explosively.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Guidelines:**

<u>COMPONENT</u>	<u>CAS No.</u>	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>	<u>ACGIH TLV/STEL</u>	<u>OTHER RATING</u>
Isopropyl Alcohol	67-63-0	400ppm	200ppm	400ppm	

**Exposure Controls:** Avoid open electrical sources near product vapor areas.

**Personal Protection Equipment:**

**Eyes:** Chemical splash goggles recommended.

**Skin and body:** Impervious or chemical resistant gloves (consult safety equipment supplier).

**Respiratory:** Ventilation in work area should be sufficient to maintain atmosphere with vapor level below lowest listed TLV. If TLV's are exceeded, use a respirator with appropriate NIOSH approved cartridges or supplied air equipment.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear colorless liquid.

**Odor:** Characteristic odor

**pH:** N/A

**Melting Point:** N/A

**Boiling Point:** 180° F

**Flash Point:** (Tag Closed Cup Method) 53° F (12° C)

**Flammable Limits:**

**LEL:** 2.0%

**UEL:** 12.7%

**Vapor Pressure:** (mmHg) 33 @ 68° F (20° C)

**Vapor Density:** (Air = 1) 2.1

**Specific Gravity:** (Water = 1) 0.787 @ 68° F (20° C)

**Solubility in water:** Complete @ 68° F (20° C)

**Maximum VOC Content:** 6.55 Lb/Gal (785 Gm/L)

**Maximum VOC %:** 100% (EPA Method 24)

**Odor Threshold:** N/A

**Evaporation Rate:** N/A

**Relative Density:** N/A

**Partition Coefficient: N-Octano/Water:** N/A

**Auto-ignition Temperature:** N/A

**Decomposition Temperature:** N/A

**Viscosity:** N/A

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable

**Incompatible Materials:** Avoid strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon Monoxide and or Carbon Dioxide. Carbon Monoxide is highly toxic if inhaled, Carbon Dioxide in sufficient concentrations, can lead to asphyxiation.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Avoid exposure to high heat sources, electrical and welding arcs, open flame and strong oxidizing agents.

**Warning:** Spontaneous combustion may occur when solvent soaked combustible materials (paper, cotton etc.) are allowed to stand in confined areas.

**11. TOXICOLOGICAL INFORMATION****Oral LD50:**LD50 Oral -  $\geq 5,000$  mg/kg**Dermal LD50:**LD50 Dermal -  $\geq 5,000$  mg/kg**Inhalation LC50:**LC50 Inhalation -  $\geq 40$  mg/l**Other information on Acute Toxicity:**

No data available

**Routes of exposure:** Inhalation, Ingestion, Skin**Acute:** Overexposure may lead to skin irritation, eye irritation, and central nervous system depression, leading to headaches, nausea and unconsciousness.**Chronic:** Overexposure in high concentrations may produce central nervous system depression, dermatitis and eye irritation.**Signs and Symptoms of Exposure:** Overexposure may lead to dizziness, headaches, dermatitis and eye irritation.**Medical Conditions Aggravated by Exposure:** Preexisting eye, skin, liver, kidney, nerves, or respiratory disorders may be aggravated by exposure.**Carcinogenicity (NTP, IARC, OSHA):** Components of this product have not shown any evidence of carcinogenicity.**12. ECOLOGICAL INFORMATION****Ecotoxicity:** No data available**Persistence and degradability:** No data available**Bioaccumulative potential:** No data available**Mobility in the soil:** No data available**Other adverse effects:** No data available**13. DISPOSAL CONSIDERATIONS****Waste disposal methods:**

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**14. TRANSPORTATION INFORMATION**

<u>U.S. D.O.T. DESIGNATION</u>	<u>ID NUMBER</u>	<u>HAZARD CLASS</u>	<u>PACKING GROUP</u>
Flammable Liquids, N.O.S. (contains Isopropyl Alcohol)	UN1219	3	II

**U.N. DESIGNATION**

Same as D.O.T.

**15. REGULATORY INFORMATION**

**Regulatory Information:** This information may be useful in complying with various federal and state regulations: Components present in this product at a level which could require reporting under EPA Regulation 40CFR302 (CERCLA) Section 102 and EPA Regulation 40CFR372 (SARA) 313: This product contains 100% of Isopropanol.

Product may contain components which are further regulated by state and/or local agencies - Consult Appropriate Agencies.

**Notification status:**

U.S.A.: Toxic Substances Control Act (TSCA) Y

Canada: Domestic Substances List (DSL): Y

**16. OTHER INFORMATION**

**For More Information, Consult Tower Products, Inc.**

**This Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied Is Made.**

**Date of Preparation:** January 1, 2015