



THATCHER COMPANY MATERIAL SAFETY DATA SHEET
PRODUCT: ISOPROPYL ALCOHOL
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MSDS Date: March 14, 2014
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: Isopropyl Alcohol
CHEMICAL NAME: 2-propanol
CHEMICAL FAMILY: Alcohol
FORMULA: C₃H₈O

DOT SHIPPING INFORMATION: Isopropanol, 3, UN1219, PG II

SECTION II - INGREDIENTS

| HAZARDOUS MATERIAL | CAS NUMBER | w/w % | EXPOSURE LIMITS IN AIR |
|--------------------|------------|-------|-------------------------|
| Isopropanol | 67-63-0 | 99+ | TLV/PEL = 400 ppm (TWA) |

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - HEALTH HAZARD DATA

NFPA HAZARD RATING

Health = 1
Flammability = 2
Reactivity = 0

Carcinogenic Listing:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Contact Eyes: Mildly irritating to eyes.
Skin: Mildly irritating to skin.

Inhalation May cause mild irritation to nose, throat, and respiratory tract. May result in Central Nervous System depression.

Ingestion Irritating to the GI tract, causing abdominal pain and vomiting (sometimes bloody).
Ingestion may cause CNS depression, low blood pressure, rapid heartbeat and liver



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damage.

STATEMENT OF PRACTICAL TREATMENT:

| | |
|-------------------|--|
| Contact | Eyes: For eyes, flush with cool water for at least 15 minutes and get medical attention. Skin: For skin, flush with cool water for at least 15 minutes and get medical attention. |
| Inhalation | Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. |
| Ingestion | If conscious, give no more than 2 glasses of water and induce vomiting. Call a physician immediately. |

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT:
53 F (11C)

FLAMMABLE LIMITS:
UEL: 2.0
LEL: 12.7

EXTINGUISHING MEDIA:
Use water spray, carbon dioxide, dry chemical, alcohol-type or universal-type foams applied by manufacturer's recommended procedure.

SPECIAL FIRE-FIGHTING PROCEDURES:
Use self-contained breathing apparatus and proper safety equipment.

SECTION V - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:
NIOSH-approved respirator to prevent overexposure.

VENTILATION:
Explosion-proof ventilation to control vapor concentrations.

EYE PROTECTION:
Chemical goggles.

SKIN PROTECTION:
Chemical resistant gloves.

OTHER PROTECTIVE EQUIPMENT:
As needed to avoid contact with skin and eyes. Eye wash fountains and safety showers should be available.



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SECTION VI - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

FLAMMABLE! Keep away from heat, sparks and open flame. Keep containers closed when not in use. Use with adequate ventilation. Do not cut, drill, grind, weld or perform similar operations on or near containers. Ground fixed equipment. Bond and ground transfer containers and equipment. Wash with soap and water before eating, drinking, etc.

SECTION VII - PHYSICAL DATA

| | | | |
|----------------------|----------------------------------|------------------------|------------|
| MELTING POINT C (F): | | BOILING POINT C (F): | 180F (83C) |
| DENSITY: | 0.79 (68F) | VAPOR PRESSURE (mmHg): | 33 (68F) |
| pH: | N/D | EVAPORATION RATE: | N/A |
| APPEARANCE AND ODOR: | Colorless liquid with mild odor. | | |

SECTION VIII - REACTIVITY DATA

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS OR MATERIALS TO AVOID:

Do not store or handle in aluminum equipment at temperatures above 120F.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide and carbon monoxide.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

WARNING! Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. For large spills, wear proper safety equipment. Shut off source of leak only if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. For small spills, take up with an absorbent material and place in non-leaking containers. Seal tightly for proper disposal.

WASTE DISPOSAL METHOD:

Waste material is an EPA characteristic hazardous waste (D001) due to ignitability, and must be disposed of at an EPA-approved disposal facility. Comply with all local, state and federal regulations.



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SECTION X – REGULATORY INFORMATION

CHEMICAL INVENTORY STATUS:

| Ingredient | | TSCA | EC | Japan | Australia | Korea | Canada | | Phil. |
|-------------------|---------|------|----|-------|-----------|-------|--------|------|-------|
| | | | | | | | DSL | NDSL | |
| Isopropyl Alcohol | 67-63-0 | Y | Y | Y | Y | Y | Y | N | Y |
| | | | | | | | | | |

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/D = Not Determined

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.