



THATCHER COMPANY MATERIAL SAFETY DATA SHEET
PRODUCT: ISOPROPANAL 99%
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MSDS Date: April 4, 2007
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: Isopropanol 99%

FORMULA: Mixture

DOT SHIPPING INFORMATION:

Flammable liquid, n.o.s.
(Isopropanol), 3, UN 1993, PG II

SECTION II - HAZARDOUS INGREDIENTS

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Isopropanol	67-63-0	----	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 - PHYSICAL DATA

BOILING POINT (F): Abt. 180^oF

SPECIFIC GRAVITY: 0.789 @ 60 F

VAPOR PRESSURE (mm Hg): 33 @ 68 F

% VOLATILE, BY VOLUME: 100%

VAPOR DENSITY (air = 1): 2.070

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Colorless liquid with mild odor.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: (for Isopropanol) 53 F

FLAMMABLE LIMITS: Lel: 2.0 Uel: 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.



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UNUSUAL FIRE AND EXPLOSION HAZARDS:

Containers exposed to intense heat from fires, should be cooled with water to prevent vapor pressure buildup. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

SECTION V - 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 120⁰ F.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide.

SECTION VI - HEALTH HAZARD DATA

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: Mildly irritating to the eyes and skin.

Inhalation: May cause mild irritation to the nose, throat and respiratory tract and may result in Central Nervous System (CNS) Depression

Ingestion: Irritating to the gastrointestinal tract, causing abdominal pain and vomiting (sometimes bloody). Ingestion may cause CNS Depression, low blood pressure, rapid heart beat and liver damage.

STATEMENT OF PRACTICAL TREATMENT:

Contact: Flush exposed area thoroughly with water. For eyes, 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.



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SECTION VII - 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.

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.

SECTION VIII - 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.

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/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

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

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.