



MATERIAL SAFETY DATA SHEET

SECTION I - SUPPLIER INFORMATION

Product Name: Pitt Penn Premium Isopropyl Alcohol
Product Number: 802175
Bulk Stock Number: 022760

Synonyms: IPA, Isopropanol
Chemical Formula: $\text{CH}_3\text{CHCH}_3\text{OH}$
CAS Name & Number: Isopropyl Alcohol (67-63-0)
Chemical Family: Aliphatic Alcohol

Supplier's Name & Address: Pitt Penn Oil Co.
426 Freeport Road
P.O. Box 296
Creighton, PA 15030
(724) 226-2712

Emergency Phone Number: Chem Tel, Inc. 1-800-255-3924 (24 hours)

Current Issue Date: August 27, 2003
Date of Origination: March 12, 2002

SECTION II - HAZARDOUS INGREDIENT INFORMATION

| <u>Component</u> | <u>CAS #</u> | <u>Wt. %</u> | <u>TLV</u> | <u>PEL</u> |
|------------------|--------------|--------------|------------|------------|
| Isopropyl | 67-63-0 | 100 | 400 ppm | 400 ppm |

Eye Contact: Moderately irritating

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Skin Contact: Mildly irritating

Inhalation: May cause mild irritation of nose and respiratory tract. May result in central nervous system depression.

Ingestion: Irritating to gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. May cause central nervous system depression, low blood

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

pressure, rapid heart rate and liver damage.

| | |
|-------------------------------------|-----------------------|
| Boiling Point: | 180 ° F (82 ° C) |
| Specific Gravity (Water=1): | 0.789 |
| Vapor Pressure (mm of Mercury): | 32 @ 68 ° F |
| Melting Point: | -88 ° C (-127 ° F) |
| Solubility (in Water): | Totally miscible |
| Vapor Density (Air=1): | 2.1 |
| p.H.: | Not applicable |
| Percent Volatile (by Weight): | 100% |
| Evaporation Rate (Butyl Acetate=1): | 1.4 |
| Molecular Weight: | 60 |
| Appearance: | Liquid |
| Odor: | Pungent alcohol odor. |

SECTION IV - FIRE AND EXPLOSION DATA

| | |
|-----------------------------------|---|
| Special Fire Fighting Procedures: | Firefighters should use self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode, and wear full protective clothing. |
| Flashpoint and Method: | 11 ° C (52 ° F) (closed cup) |
| Extinguishing Media: | Carbon dioxide, dry chemical, alcohol foam, and water. |
| Unusual Fire & Explosion Hazards: | Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks, or flames and can react vigorously with oxidizing agents. |
| Flammable Limits (% by volume): | 2 LEL 12 UEL |

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Autoignition Temperature: 400 ° C (750 ° F)

SECTION V - REACTIVITY DATA

Stability: Stable
Conditions and Materials to Avoid: Heat, strong oxidizing agents
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Toxic gases and vapors (i.e., carbon monoxide, formaldehyde) may be released.
Incompatibility: Strong oxidizing agents such as nitrates,

SECTION VI - HEALTH HAZARD DATA/FIRST AID

perchlorates or sulfuric acid.

Medical conditions aggravated by overexposure include pre-existing eye, skin & respiratory conditions.

ROUTES OF ENTRY/EMERGENCY AND FIRST AID PROCEDURES

Eyes: Wash eyes immediately with running water for at least 15 minutes, lifting the lower and upper lids occasionally. Get medical attention as soon as possible.
Skin: Remove contaminated clothing and wipe excess off. Wash affected area with soap and water; apply skin lotions. If skin irritation persists, get medical attention.
Inhalation: Remove victim to fresh air at once. Restore and/or support breathing as required. Keep victim warm and at rest. Get medical attention as soon as possible.
Ingestion: Get medical attention immediately. Induce vomiting with one (1) tablespoon of Ipecac or by touching the back of the throat (ONLY IF CONSCIOUS). Once vomiting has occurred, have the patient drink milk or water.
Reproductive Effects: Reported to cause birth defects in rats exposed to 1,000 mg/kg
Tetratogenicity: No
Metagenicity: No
Carcinogenicity: Not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING

Precautions to be Taken in Handling and Storage:

Ground and electrically interconnect containers for transfer. Use spark proof tools. No

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smoking in areas of use or storage. Avoid prolonged or repeated breathing of vapor or contact with skin. Avoid contact with eyes. Contact lenses should not be worn while handling Isopropanol. Eye wash stations and safety showers should be available in area of use. Do not ingest! Store in a well-ventilated, fireproof area, away from sources of heat, open flame, and ignition.

Other Precautions: Provide preplacement medical exams for industrially exposed workers, with emphasis on neurological and visual functions, liver and kidney systems. Provide suitable training to those working with Isopropanol. Monitor the workplace. Keep records.

Registrations/Certifications: Not applicable

SECTION VIII - SPECIAL PROTECTION AND CONTROL MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Eye Protection: Safety glasses with side shields or face shield.

Respiratory Protection: Any air supplied respirator or self-contained breathing apparatus. Only NIOSH or OSHA approved equipment should be used.

Other: Impervious aprons, boots and face shields (8-inch min.) where splashing can occur.

VENTILATION

Local Exhaust: To meet TLV requirements, local exhaust should be used where vapor exposure is likely.

Mechanical (general): Controls must be spark proof and explosion proof.

Special: Not applicable

Other: Not applicable

SECTION IX - HANDLING OF SPILLS AND LEAKS

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

1. Remove all ignition sources.
2. Provide adequate ventilation.
3. Small quantities may be absorbed on paper towels. Evaporate in a safe place (such as fume hood). Large quantities can be collected and atomized in a suitable combustion chamber by approved disposal facility. Spills in sensitive areas may be diluted and

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flushed to ground with a water spray. Do not flush to sewer or other confined space.

4. Spills should be reported according to Federal, State and Local regulations.

Waste Disposal Methods: Absorb in vermiculite, dry sand, earth or a similar material and dispose in a secured sanitary landfill or dispose of via a licensed waste solvent disposal company.

Clean Water Act Requirements: Not applicable

SECTION X - TOXICOLOGICAL/ECOLOGICAL INFORMATION

No data

SECTION XI - TRANSPORTATION DATA

D.O.T.: Proper Shipping Name - Isopropanol
Hazard Class - Flammable Liquid, Class 3, Packing Group II
Label Required - Flammable Liquid
Identification Number - UN-1219, Guide 129
Other Pertinent Information - See 45 CFR 172.101

SECTION XII - REGULATORY INFORMATION

All components listed on TSCA inventory.

NFDA Rating: Health -2 Fire - 3 Reactivity - 0

SECTION XIII - USER INFORMATION

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and Local laws and regulations.

Relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading, this

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information relates to the material designated and may not be valid for such material used in combination with any other materials or in any process.