

MATERIAL SAFETY DATA SHEET

4-1172, 4-1175 ISOPROPYL ALCOHOL 99%

Revision Date:5/1/13

Section I - Product Identification

| | | | |
|---------------------|---------------------------------|-----------------------------------|---|
| Manufacturer's Name | Mark Andy, Inc | Emergency Phone Number (24 Hours) | CHEMTREC @ (800) 424-9300 |
| Street Address | 18081 Chesterfield Airport Road | MSDS access online at: | https://shop.markandy.com/msds |
| City,State,Zip Code | Chesterfield, MO 63005 | Customer Service: | (US) 800-225-4835 (CAN) 800-387-3143 |
| General Phone: | 636-532-4433 | Date Prepared: | February 2, 1995 |
| Product Use: | OFFSET PRINTING. | Prepared By: | Kenneth W. Pinter |

Chemical Name, Trade Name, Synonyms: ISOPROPANOL, 2-PROPANOL.

HMIS RATING

2 - Health 3 - Flammability 0 - Reactivity B - Personal Protection

Section II - Hazardous Ingredients

| Hazardous Components | CAS NO. | % WT. | Exposure Limits | | |
|----------------------|---------|-------|-----------------|-----------|-------|
| | | | OSHA PEL | ACGIH TLV | OTHER |
| ISOPROPYL ALCOHOL | 67-63-0 | 100 | 400 PPM. | 400 PPM. | |
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Section III - Physical Data

Boiling POINT(F): 180 |pH: N.A.

Vapor Pressure(mm Hg): 33 |Freezing Point(F): N.A.

Vapor Density (AIR = 1): 2.1 |VOC: 6.58 LBS/GAL

Specific Gravity (H2O=1): 0.789 |Color And Odor: COLORLESS / ALCOHOL

Odor Threshold: 7.5 PPM |Physical State: LIQUID.

Evaporation Rate (Butyl Acetate = 1): 1.4

Solubility in Water: COMPLETE.

Section IV - Fire and Explosion Hazard Data

FLASH POINT (METHOD USED): 53 (F) T.C.C. |Flammable Limits:
|LEL: 2.0% |UEL: 12.0%

Auto-ignition Temperature: N.D.

Extinguishing Media: WATER FOG / ALCOHOL FOAM / CO2 / DRY CHEMICAL.

Special Fire Fighting Procedures: USE APPROVED RESPIRATORS. WATER MAY BE INEFFECTIVE IN ADVANCED FIRES, BUT CAN BE USED TO KEEP FIRE EXPOSED CONTAINERS AND FIREFIGHTERS COOL.WATER WILL DILUTE SMALL SPILLS TO A NON-FLAMMABLE MIXTURE.

Unusual Fire And Explosion Hazards: LOW FLASH POINT.

Section V - Reactivity Data

Stability Unstable : |Conditions to Avoid: OPEN FLAMES AND ELECTRICAL

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Stable : X | SPARKS. KEEP CONTAINER CLOSED WHEN NOT IN USE,
| DO NOT SMOKE WHILE USING.

Incompatibility (Materials to Avoid): STRONG OXIDIZING MATERIAL.

Hazardous Decomposition Products: POSSIBLY CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS.

Hazardous | May Occur: | Conditions to Avoid: HEAT, SPARKS AND
Polymerization | Will Not Occur: X | OPEN FLAME.
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Section VI - Health Hazard Data (Acute and Chronic)

Primary Route(s) of Entry: DERMAL, INHALATION.

Oral Ingestion: MAY CAUSE MARKED AND PERSISTENT NAUSEA, VOMITING AND ABDOMINAL PAIN. IF VOMITING OCCUR FOLLOWING INGESTION, ASPIRATION OF VOMITUS INTO THE LUNGS CAN CAUSE BROCHOPNEUMONIA OR PULMONARY EDEMA.

Eye Contact: LIQUID OR VAPOR CONTACT CAN CAUSE IRRITATION.

Skin Contact: PROLONGED AND REPEATED CONTACT CAN CAUSE DRYNESS AND IRRITATION.

Inhalation: HIGH CONCENTRATIONS OF VAPORS CAN IRRITATE RESPIRATORY TRACT AND MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

Effects of Overexposure: HIGH CONCENTRATION OF VAPOR CAN HEADACHES, DIZZINESS NAUSEA, INCOORDINATION, DROWSINESS AND LOSS OF CONSCIONSNESS.

Medical Conditions Generally Aggravated by Exposure | PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS.
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Carcinogenicity: NOT KNOWN TO BE CARCINOGENIC. PRESENT.

Mutagenicity: NOT KNOWN TO BE MUTAGENIC.

Teratogenicity: NOT KNOWN TO BE TERATOGENIC.

Reproductive Toxicity: NOT KNOWN TO HAVE REPRODUCTIVE TOXICITY.

FIRST AID PROCEDURES

Ingestion: GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 2 TABLE SPOONS SYRUP OF IPECAC. GET MEDICAL ATTENTION IMMEDIATELY.
Eye: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

Skin: WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

Section VII - Toxicology Information

| Ingredient | Inhalation LC50 | Oral LD50 (RATS) | Dermal LD50 (RABBITS) |
|-------------------|--------------------|---------------------|--------------------------|
| ISOPROPYL ALCOHOL | 12,000PPM(8HRS) | 5840 mg/KG | 13,000 mg/KG |

Section VIII - Spill or Leak Procedure

