ISOPROPANOL 80%

AAPER MSDS NUMBER: 180

EFFECTIVE DATE: DECEMBER 3, 2003

AAPER Alcohol and Chemical Company 1101 Isaac Shelby Drive, P. O. Box 339 Shelbyville, Kentucky 40066-0339 Telephone: (502) 633-0650

For chemical emergency – spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300 day or night. Outside the continental United States, call CHEMTREC at 1-703-527-3887 (collect calls accepted).

AAPER Alcohol and Chemical Company urges the customer receiving this Material Safety Data Sheet (MSDS) to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety, you should: (1) notify your employees, agents, and contractors of the information on this sheet, and (2) furnish a copy to each of your customers to inform their employees and customers as well.

		SECTION I - IDEN	TIFICATION		
	PRODUCT NAM SYNONYMS: CHEMICAL FAM	Isopropyl Al			
		Section II – INGR	EDIENTS		
COMPOSITION	CAS RN.	NOMINAL VOL/VOL%	<u>L/TLV</u>	HAZARD	
Isopropyl Alcohol Water	67-63-0 7732-18-5	83.85 16.54	400/400	Flammable	
	SI	ECTION III – HEALTH	INFORMATION		
INHALATION: INGESTION: EYE CONTACT: SKIN CONTACT:	Exposure to over 400 ppm may cause headache, nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, possible unconsciousness, and even asphyxiation. Can cause nausea, vomiting, diarrhea, and gastrointestinal irritation. Liquid or vapor may cause irritation, blurred vision, and redness. May cause irritation, defatting of skin, and dermatitis.				
	SECTIO	N IV - OCCUPATION	AL EXPOSURE LIMIT	S	
	PEL (OSHA Perr	nissible Exposure Lim eshold Limit Value):		ection II	
	SECTION	V – EMERGENCY FI	RST AID PROCEDUR	RE	
FOR OVEREXPOS SWALLOWING: INHALATION: CONTACT WITH EYES OR SKIN:	SURE BY: If victim is conscious and able to swallow, have victim drink water or milk to dilute. Never give anything by mouth if victin is unconscious or having convulsions. CALL A PHYSICIAN OR CHEMTREC (POISON CONTROL) IMMEDIATELY Induce vomiting only if advised by physician or Chemtrec (Poison Control). Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to mouth. GET MEDICAL ATTENTION IMMEDIATELY. Immediately flush affected area with plenty of cool water. Eyes should be flushed for at least 15 minutes. Remove and wash contaminated clothing before reuse. GET MEDICAL ATTENTION IMMEDIATELY.				
		SECTION VI – PHY			
	SPECIFIC VAPOR D SOLUBILI	POINT:	180° F -50° F 33 mm Hg @ 68° F 0.8355 - 0.8365 @ 6 2.0 Complete Clear and colorless	8ºC	
	SECTIO	ON VII – FIRE AND EX	PLOSIVE HAZARDS		
NFPA (National Fin		75° F ASTM D-56 685° F LOWER: 2.5 : HEALTH (1)		REACTIVITY (0)	

FIRE FIGHTING PROCEDURES: UNUSUAL FIRE & EXPLOSION HAZARDS:		(Note: Individuals should perform only those fire-fighting procedures for which they have been trained.) Use dry chemical, "alcohol" foam, or carbon dioxide; water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures and to dilute spills to nonflammable			
		mixtures. Firefighters should wear self-contained breathing apparatuses in the positive pressure mode with a full face piece when there is a possibility of exposure to smoke, fumes, or hazardous decomposition products.			
		SECTION VIII – REACTIVITY			
STABILITY: HAZARDOUS POLYMERIZATION: CONDITIONS & MATERIALS TO AVOID:		Generally stable. Not likely. Contact with acetyl chloride and a wide range of oxidizing agents may react violently.			
		SECTION IX – EMPLOYEE PROTECTION			
RESPIRATORY PROTECTION:	Handle in the presence of adequate ventilation. Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminant in air and in accordance with OSHA (29 CFR 1910.134).				
PROTECTIVE CLOTHING: Wear glove exposure if EYE PROTECTION: Wear safety anticipated.		es and protective clothing which are impervious to the product for the duration of the anticipated f there is potential for prolonged or repeated skin contact. ty glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is d. Chemical safety goggles meeting the specifications of ANSI Standard Z87.1 should be worn there is the possibility of splashing or other contact with the eyes.			
		ECTION X - ENVIRONMENTAL PROTECTION			
ENVIRONMENTAL PRECAUTIO		ncontrolled releases of this material. Where spills are possible, a comprehensive spill response build be developed and implemented.			
SPILL OR LEAK PROCEDURES: Wear spilled the ev		r appropriate respiratory protection and protective clothing as described in Section IX. Contain ad material. Transfer to secure containers. Where necessary, collect using absorbent media. In event of an uncontrolled release of this material, the user should determine if the release is rtable under applicable laws and regulations.			
WASTE DISPOSAL: All red		vered material should be packaged, labeled, transported, and disposed of, or reclaimed in ance with applicable laws and regulations and in conformance with good engineering practices. SECTION XI – REGULATORY CONTROLS			
DEPARTMENT OF TRANSPORT DOT CLASSIFICATION: DOT PROPER SHIPPING NAME OTHER DOT INFORMATION:		3 (Flammable Liquid) Isopropyl Alcohol Identification No. UN1219 P.G. II			
TOXIC SUBSTANCE CONTROL	ACT (TSCA):	Emergency Response Guide No. 129 This product is listed in the TSCA Inventory of Chemical Substances.			

SECTION XII - PRECAUTIONS: HANDLING, STORAGE, AND USAGE

Protect container against physical damage. Detached or outside storage is preferred. Inside storage should be in an NFPA approved flammable liquid storage room or cabinet. All ignition sources should be eliminated. Smoking should be prohibited in the storage and usage areas. Electrical installations should be in accordance with Article 501 of the National Electrical Code. NFPA 30, Flammable and Combustible Liquids Code, should be followed for all storage and handling. Frequent careful leakage inspections should be done. An automatic sprinkler system should be provided. Isolate from oxidizers, chemicals capable of spontaneous heating, materials reacting with air or moisture to liberate heat, ignition sources and explosives. Consult local fire codes for additional storage information.

When contents are being transferred, the metallic container must be bonded to the receiving container and grounded to avoid static discharges. Never use pressure to empty. Replace closure securely after each opening.

Keep material packaged in drums or bottles out of sun and away from heat. Remove closure carefully; internal pressure may be present. Keep closure on to prevent leakage.

Container hazardous when empty. Since emptied containers retain residual product (vapor and liquid), all precautions described on this MSDS must be observed.

CAUTION: For manufacturing, processing, repackaging, or industrial use.

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must conduct testing and/or make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. AAPER ALCOHOL AND CHEMICAL COMPANY Isopropanol 80% 12/03/03 Page 2 of 2