

MATERIAL SAFETY DATA SHEET

Date Prepared: 09-01-01 By Charles D. Werner

SECTION 1 - PRODUCT IDENTIFICATION			
Distributor Name: Fortech Products by Formula Corporation	Emergency Phone No: 1-800-228-5635 ext. 059		
Address: 7901 2nd Ave. S., Seattle, WA 98108			
Trade Name: ISOPROPYL ALCOHOL	Product Type:		
Product code: FLCIPAXX	Formula: 2-propanol		
SECTION 2 - HAZARDOUS INGREDIENTS			
Chemical Name/Common Name:	CAS NO.	PERCENT (optional)	TLV (Source)
Isopropyl alcohol LC ₅₀ 22,600 PPM INH (rat), LD ₅₀ (oral-rat) 5,045 mg/kg	67-63-0	99	400 ppm TLV (OSHA)
No toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present			
SECTION 3 - PHYSICAL DATA			
Boiling Point: (F) 180 F	Specific Gravity: (H ₂ O = 1.0) 0.79	pH: N/A	
Vapor Pressure: (mm/Hg) 33 @ 68 F	Vapor Density: (AIR = 1.0) 2.1		
Solubility In Water: Complete			
Evaporation Rate (Vs BUTYL ACETATE = 1.0): 1.4			
Appearance and Odor: Liquid, non-viscous, WATER WHITE color			
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.): 53 F FLAMMABLE LIMITS / % VOLUME IN AIR: UPPER: 12.7 % LOWER: 2%			
Extinguishing Media: Use water fog, "alcohol" Foam, Dry Chemical or CO ₂ .			
Special Fire Fighting Procedures: EXTREMELY FLAMMABLE. Clear area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers.			
Unusual Fire and Explosion Hazards: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.			
SECTION 5 - REACTIVE DATA			
Stability: Stable Incompatibility: non-reactive.			
Hazardous Decomposition Products: carbon monoxide and unidentified organic compounds may be formed during combustion.			
SECTION 6 - HEALTH HAZARDS			
Threshold Limit Value - Product (See Section 2 for Ingredient TLV) None Established			
Primary Routes of Exposure: Eye - yes Skin-No Oral-yes Inhalation-yes Other			
Signs and Symptoms of Over-exposure (Acute): EYES: Severe eye irritant. SKIN: Mildly irritating to the skin. INHALATION:			
May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system depression. INGESTION: Generally considered to have a low order of acute oral toxicity. Irritation as noted above, early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea			
Symptoms of Over-Exposure (Chronic): Unknown			
Medical Conditions Aggravated by Over-exposure: Persons with pre-existing skin disorders, eye problems, impaired respiratory function may more susceptible to effects.			
Carcinogen or Suspect Carcinogen Ingredients: NTP - NO IARC - NO OSHA - NO NONE			
SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES			
Eyes: Flush with immediately with lots of running water for at least 15 minutes holding eyelids open. Get medical attention.			
Skin: Wash skin with soap and water. Remove contaminated clothing & shoes. Wash before reuse.			
Ingestion: DO NOT INDUCE VOMITING. Risk of damage to lungs exceeds poisoning risk. If vomiting occurs spontaneously, keep victims head below his hips to prevent his breathing vomitus into his lungs. Call physician or poison control center immediately, treat symptomatically. Do not give anything by mouth to an unconscious or convulsing person.			
Inhalation: Get to fresh air. Get medical attention if breathing is difficult.			
SECTION 8 - SPECIAL PROTECTION INFORMATION			
Respiratory Protection: not normally required Ventilation Requirements: Adequate ventilation required.			
Protective Gloves: not normally required, to be used to minimize contact. Eye Protection: Not normally required. Recommended if used overhead or misting or spraying.			
SECTION 9 - SPILL OR LEAK PROCEDURES			
Steps to be Taken if Released or Spilled: WARNING FLAMMABLE -- ELIMINATE ALL IGNITION SOURCES. Vapors may ignite. Handling equipment must be grounded before using to prevent sparking. For small spills, mop or wipe up and contain. For large spills, contain by diking with absorbent material and contain.			
Waste Disposal Methods: Note that the contaminates of the product must be consider when disposing. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures and comply with them. Dilute aqueous mixtures may biodegrade. Avoid overloading / poisoning plant biomass.			
SECTION 10 - STORAGE AND HANDLING INFORMATION			
Precautions to be Taken in Handling and Storage: FLAMMABLE -- KEEP AWAY FROM HEAT AND FLAME.			
Do not mix chemicals.			
This product is HAZARDOUS for storage and transport according to regulations. UN1219			
Keep container tightly closed when not in use.			
Do not store in Aluminum containers.			