

JNJ Industries, Inc.

290 Beaver Street

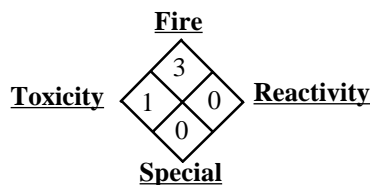
Franklin, MA 02038

Phone: 508-553-0529 * Fax: 508-553-9973

Web Site: www.jnj-industries.com * E Mail: sales@jnj-industries.com

HAZARD RATING

4 = Extreme
 3 = High
 2 = Moderate
 1 = Non-Toxic, Slight
 0 = Insignificant

**FOR CHEMICAL EMERGENCY call INFOTRAC at 1-800-535-5053**

24 Hrs. per day, 7 days per week

MATERIAL SAFETY DATA SHEET

MATERIAL GlobalTech® Isopropyl Alcohol, 70%	CODE	KEY IPA/DI	HAZARD CLASS Flammable Liquid
FORMULA NA	DATE ISSUED 4/1/01	CHEMICAL NAME OR SYNONYMS 2-Propanol	

I - APPROXIMATE COMPOSITIONAL INFORMATION

USP Isopropyl Alcohol USP Water DI	APPROX. WEIGHT % 70 30	TWA/TLV 400 ppm TWA NE
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II - PHYSICAL PROPERTY INFORMATION

APPEARANCE; ODOR; pH Water Clear Liquid pH=7	VISCOSITY NA
MELTING/FREEZING POINT -88.5° C F.P.	BOILING POINT 179°F (82°C)
SOLUBILITY IN WATER Complete	VAPOR DENSITY (Air)=1) 2.0
SPECIFIC GRAVITY (Water=1) 0.88	% VOLATILE (By Weight) 100%
	VAPOR PRESSURE (mm Hg) 33
	EVAPORATION RATE (Butyl Acetate=1) 2.88

III - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT 64°F (18° C, TCC)	AUTOIGNITION TEMP Will Not Occur	LOWER EXPLOSION LIMIT % NA	UPPER EXPLOSION LIMIT % NA
EXTINGUISHING MEDIA <input checked="" type="checkbox"/> Foam <input type="checkbox"/> "Alcohol" Foam <input checked="" type="checkbox"/> CO ₂ <input checked="" type="checkbox"/> Dry Chemical <input checked="" type="checkbox"/> Water Spray <input type="checkbox"/> Other			
SPECIAL FIRE FIGHTING PROCEDURES Use water spray to cool containers and to prevent flammable vapor from escaping. Water may be ineffective on direct flame, but can be used to flush spills from ignition or disperse vapor			
UNUSUAL FIRE AND EXPLOSION HAZARDS Liquid is invisible and flammable, vapors may travel in low areas to ignition source			

IV - HEALTH HAZARD INFORMATION

RECOMMENDED WORKPLACE EXPOSURE LIMITS 500 ppm STEL OSHA & ACGIH
EFFECTS OF OVEREXPOSURE <u>Inhalation:</u> May cause mild irritation to nose, throat or above TLV-headache <u>Eye Contact:</u> Slight to moderate irritation, may cause corneal injury <u>Skin Contact:</u> Prolonged contact results in skin drying <u>Ingestion:</u> May cause vomiting, diarrhea, drowsiness, cramps
EMERGENCY AND FIRST AID PROCEDURES <u>Inhalation:</u> Move subject to fresh air, give artificial respiration if breathing has stopped <u>Eye or Skin Contact:</u> Flush with large amount of water. Contact Physician. Remove contaminated clothing and wash before reuse <u>Ingestion:</u> If patient is conscious give two glasses of water/milk and induce vomiting. Get medical attention

V - REACTIVITY INFORMATION

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID Keep away from ignition sources: sparks, heat and flame
HAZARDOUS DECOMPOSITION PRODUCTS Will Not Occur	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID
INCOMPATIBILITY (Materials To Avoid) <input type="checkbox"/> Water <input checked="" type="checkbox"/> Other Concentrated Nitric & Sulfuric acids, Oxidizers, Aldehydes, Halogens, Halogen Compounds	

VI - SPILL OR LEAK PROCEDURE INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Eliminate ignition sources. Ground handling equipment to prevent sparking. Wear respirator and protective clothing. Dike and contain spill. Suppress vapors with water fog. Soak up residue with absorbent clay or sand. Place in non-leaking containers for disposal

WASTE DISPOSAL METHODS
Incinerate waste in accordance with Federal, State, and Local regulations

VII - SPECIAL PROTECTION INFORMATION

VENTILATION TYPE
Use local exhaust ventilation to prevent build-up of explosive vapor concentrations and keep below TLV - also see section IV

RESPIRATORY PROTECTION
None required during normal use with adequate ventilation

PROTECTIVE GLOVES Natural Rubber	EYE PROTECTION Safety Glasses
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OTHER PROTECTIVE EQUIPMENT
Eye Bath, Safety Shower

VIII - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE Ambient	INDOOR Ambient	HEATED NA	REFRIGERATED NA	OUTDOOR Ambient
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Drum containers should be grounded. Keep containers closed when not in use. Avoid eye and skin contact. Keep away from children. Keep away from heat and flame. Use with adequate ventilation. Wash with soap and water after use

IX - TOXICITY INFORMATION

SARA Title III:	Acute Health: Yes	Sudden release of pressure: No
	Chronic Health: No	Reportable quantity (RQ): NE
	Fire: Yes	313 Toxic Chemical: Yes

X - MISCELLANEOUS INFORMATION

Isopropanol - 3, UN1219, PG II

NA = Not Available NE = Non Established	KEY IPA/DI	DATE OF ISSUE 4/1/01	SUPERSEDES 7/14/00
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