

3 DEGREE OF HAZARD 0 0 SPECIAL

PERCENT

100%

70%

MATERIAL SAFETY DATA SHEE

MIXTURE

SECTION I. Identity of Material

PRODUCT NAME OR NUMBER 70% ISOPROPYL ALCOHOL, RUBBING

SYNONYMS ISOPROPYL ALCOHOL

FORMULA снз 2снон

SECTION II-A Hazardous Product/Ingredient Per 29 CFR 1910, 1200

COMPOSITION

PRODUCT 70% ISOPROPYL ALCOHOL

I SOPROPANOL

THERE ARE NO OTHER LISTED INGREDIENTS CONSIDERED TO BE HAZARDOUS.

CAS NUMBER

SECTION II-B ACUTE TOXICITY DATA

NO. ACUTE ORAL LD50

ACUTE DERMAL LDS0

ACUTE INHALATION LC50

CHEMICAL FAMILY ALCOHOL

CAS NUMBER

MIXTURE

67-63-0

5840 MG/KG FOR RATS

13000 MG/KG FOR RABBITS

12000 MG/KG FOR RATS 8 HRS.

FOR CONCENTRATIONS OF 100%

SECTION III PHYSICAL DATA

BUILING POINT:

SPECIFIC GRAVITY: 0.878

(H20 = 1)

VAPOR PRESSURE: 20

(DEG F)

(MM HG)

MELTING POINT: (DEG F)

(DEG F)

NO.

1

4.

SOLUBILITY: COMPLETE (IN WATER)

VAPOR DENSITY: 1.6

(AIR = 1)

EVAPORATION RATE (N-BUTYL ACETATE = 1: 1 . 7

CLEAR, COLORLESS LIQUID WITH MILD ALCOHOL ODOR.

SECTION IV FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHO TAG OPEN CUP

FLAMMABLE LIMITS 1% VOLUME IN AIR LOWER: 2% UPPER: 12%

USE WATER FOG, ALCOHOL FOAM, DRY CHEMICAL, CO,

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS WARNING- FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES, AND RUBBER BOOTS. INCLUDE A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPRATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

"SUAL FIRE AND EXPLOSION HAZARDS CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH FER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME SHOULD BE COOLED WITH LARGE AMOUNTS OF WATER.

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NO. PE	OSHA L/TWA _	PEUCEILING	ACGIH TLV/TWA	TLVISTEL -	OTHER	
1 4	00 <u>P</u> PM		400 PPM 980 MG/M ³	500 PPM- 1225 MG/M ³	50% ODOR RECOGNITIO THRESHOLD IS 7.5 PP	
CARCINOGE	N: OSHA-N	O, NTP-NO, LAF	RC - NO			
NHALATION:	IN CENT	SE MILD IRRITA RAL NERVOUS SY	TION TO THE NO	OSE,THROAT,AND RER	PIRATORY TRACT AND MAY RESULT	
KIN CONTACT:	MILDLY	IRRITATING TO	THE SKIN.			
KIN ABSORPTION:	MILDLY	IRRITATING TO	THE SKIN.			
YE CONTACT:	MODERATELY IRRITATING TO THE EYES.					
NGESTION:	GENERALL	Y CONSIDERED	TO HAVE A LOW	ORDER OF ACUTE ORA	AL TOXICITY.	
CUTE: 0	ACUTE LOCAL - IRRITANT 1 ACUTE SYSTEMIC INJESTION 2, INHALATION 2					
HRONIC: Ф		LOCAL NO INFOR		MANS CONSIDERED VAL	.ID BY AUTHORS.	
SECTION VI	EMERGEN	CY AND FIRST A	ID PROCEDURES	S		
		ELY FLUSH EYES E MEDICAL ATTE		OF WATER FOR AT LE	AST 15 MINUTES. OBTAIN	
KIN:	FLUSH SK	IN WITH PLENTY	OF WATER. IF	IRRIATION OCCURS,	SEEK MEDICAL ATTENTION.	
HALATION:	REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. OBTAIN MEDICAL ATTENTION.					
GESTION:	DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR DROWSY.OTHERWISE GIVE NO MORE THE GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC 2 TABLESPOONS SYRUP OF IPECAC. OBTAIN MEDICAL ATTENTION.					
OTES TO PHYSICIAN	OF IPECA	C. IF SYMPTOMS	SUCH AS LOSS	OF GAG REFLEX, CONV	ER AND 15CC 1 TABLESPOON SYR ULSIONS, OR UNCONSCIOUSNESS RED FOLLOWING INTUBATION WIT	

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID: AVOID HEAT, SPARKS, FLAME, AND CONTACT WITH OXIDIZING AGENTS. DO NOT STOF OR HANDLE IN ALUMINUM CONTAINERS OR EQUIPMENT AT TEMPERATURES ABOVE 120 F.

HAZARDOUS DECOMPOSITION PRODUCTS CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

TAKEN FROM DANGEROUS PROPERTIES OF HAZARDOUS MATERIALS, 4TH EDITION, N. IRVING SAX

SECTION VIII EM	PLOYEE PROTECTION				
CONTROL MEASURES: E.	XPLOSION PROOF VENTILATION	ON AS REQUIRED TO CONT	ROL VAPOR CONCENTRATIONS.		
SPIRATORY PROTECTION	USE NIOSH APPROVED RESP 1910.134 USE EITHER AN RERPIRATOR FOR ORGANIC	AIMOSPHERE SUPPLYING	R EXPOSURE. IN ACCORD WITH 29CFR RESPIRATOR OR AN AIR PURIFYING		
PROTECTIVE CLOTHING:	AVOID CONTACT WITH EYES	. WEAR CHEMICAL GOGGI	ES IF THERE IS A LIKELIHOOD OF WITH THE SKIN.WEAR CHEMICAL		
EYE PROTECTION:	200 CO 200 CO	EYES. WEAR CHEMICAL G	OGGLES IF THERE IS A LIKELIHOOD		
SECTION IX ENV	RONMENTAL PROTECTION				
SPILL OR LEAK PROCEDURES	BE PROPERLY GROUNDED TO	ELIMINATE SPARKING. I	JRCES.HANDLING EQUIPMENT MUST FOR LARGE SPILLS,EVACUATE AREA		
WASTE DISPOSAL:	PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT. SHUT OFF SOURCE OF SUPPLY. UNDER EPA-FACA 40CFR261.21 PRODUCT BECOMES A WASTE MATERIAL IT WOULD BE				
ENVIRONMENTAL HAZARDS:	IGNITABLE AND A HAZARDOUS WASTE. REFER TO EPA OR STATE REGULATIONS FOR DISPORTED TO AIR, LAND, WATER, MAY BE REPORTABLE. CIRCUMSTANCES SURROUNDING RELEASED CLEANUP DETERMINE REPORTABILITY.				
ECTION X SPECI	AL PROTECTION INFORMATION	ON			
			TO CONTROL VAPOR CONCENTRATIONS		
RESPIRATORY (SPECIFY IN DE	(All.)				
RESPIRATORY (SPECIFY IN DET		RSONAL PROTECTIVE EQUIPMENT	· · · · · · · · · · · · · · · · · · ·		
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SAFETY INFORMATION