

MATERIAL SAFETY DATA SHEET

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MSDS No. Effective Date

LE 75 January 17, 1996

	ICWAY IO KINN	neuge	(513) 860-4949 Fax (513) 682-8181			Effective Date Janu			
SECTIO	וא	NAME	24	HOUR	EMERGEN	CY AS	SISTANO	CE	
Product	ETHYL ALCOHOL REAGENT, DENATURED				3 CHEMTREC Health 2				
Chemical Synonyms	Reagent Et	thyl Alcohol, Denature	ed .	<u> </u>	0 800-42	announcement l		3 4	
Formula	CH ₃ CH ₂ OI		N	FPA		Reactivity	2		
Unit Size	up to 4 Lt.				AZARD RATIN		HMIS *	EME	
C.A.S. No.	64-17-5		4-1	0	0 1		3 4		
SECTIO	NII	INGRED	IENTS OF	MIXTL	IRES				
Principal	Componer	nt(s)	(s)		%	TLV Units			
Ethyl Alco	hol, Denatured	(CAS No. 64-17-5)			90.5%		1000 ppm		
Isopropyl	Alcohol: (CAS	No. 67-63-0)			5.0%		400 ppm		
Methyl Ald	ohol: (CAS N	lo. 67-56-1)	,		4.5%	200 ppm			
		EI VAPOR HARMF S IF SWALLOWED.			n-Poisonous			no constituent	
SECTIO			AL DATA						
Melting Poir	nt (°F)	-114℃ (-173℉)			Specific Gravity (H ₂ O = 1)		0.794 @ 60°F		
Boiling Poin	it (°F)	78°C (178°F)		Percent Volatile by Volume (%)		100%			
Vapor Press	sure (mm Hg)	44.6 mm @ 68°F		Evaporation Rate (Butyl Acetate =1)		4.1			
Vapor Density (Air=1)		1.59							
Solubility in Water		Complete.							
Appearance		1	ear, coloriess, mobile liquid; mild characteristic odor.						
SECTIO	NIV	FIRE AN	CANADA STATE OF THE PARTY OF TH		AZARD D				
Flash Point (Method Used) 12.7°C		(55°F) TCC	% by Volu	Umits in Air		3.3	19.0		
Extinguisher Media	Dry che	y chemical (ABC); "Alcohol" foam; or carbon dioxide (CO ₂).							
SPECIAL F PROCEDU	IREFIGHTIN RES	breathin but wate spill has be used non-flar	ng apparatus a er should be us s not ignited, us	nd full prote sed to keep se water sp away from es.	a NIOSH/MSHA ective clothing. o fire exposed co oray to disperse exposures and C (685°F)	Water ma intainers (vapors. V	ly be inelfectiv cool. If a leak Vater spray π	ve, cor	
(1993 EMEF	RGENCY RESI	PONSE GUIDEBOOK)		-	
UNUSUAL EXPLOSIO	FIRE AND N HAZARDS	· I vapors	Vapors formed from this product may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, headers,						

electrical equipment, static discharge or other ignition sources at location distant from handling source. <u>CAUTION</u>: Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition

products; can react vigorously with oxidizing materials.

						€;			
Threshold Lin	nited V	'alue	Ethyl Alcohol: PEL/TLV 1000 ppm; Isopropyl Alcoho. /A: 400 ppm, STEL: 500 ppm; Methyl Alcohol: PEL-TWA: 200 ppm, STEL: 250 ppm						
Effects of Ove	erexpo	sure	INGESTION: Can cause central nervous system depression, nauses, vomiting, diarrhea. INHALATION: May cause headache, drowsiness, loss of appetite, inability to concentrate and irritation of the threat. EYES: Liquid or vapor may cause prilation, SKIN: May cause irritation and defatting of skin on prolonged contect. OTHES: Individual responses to Methyl Alcohol vary. Ingestion of less than 30 ml has been fatal to humans. In general a few ounces may cause blindness and death, as sittle as 4 ml may be toxic if ingested.						
Emergency a		res	INGESTION: Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, have victim drink several glasses of water. Call physician or Poison Control Center immediately. Induce vomiting it advised by physician or Poison Control Center. SKIN: Flush with water. INHALATION: Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Obtain medical attention. EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.						
SECTION V	1	R	EACTIVITY DA	ιΤΑ					
(ASTRONOMINATION SANSANIA SANS	stable		Conditions to A		Excessive temperature and heat.				
St	able	X			Sparks, t	lame and ignition sources.			
	Incompatibility Contact with acetyl chloride and a wide range of oxidizing agents may react violent Vapors may form flammable mixtures with air.								
Hazardous Decomposition Products			Carbon monoxide can form on incomplete combustion.						
Hazardous Pol	ymeriza	tion	Conditions to Avoid						
May Occur	WIII N	ot Occur	Not applicable.						
SECTION V Steps to be ta material is rel	ken in	case	remove all	roper safety eq sources of ign	uipment a	and with adequate ventilation, sorb on vermiculite or other ntainer for proper disposal.			
Waste Dispos	al Met		scharge, treatment, or dispesse disposal guidelines a			eral, State or Local laws. of catalog-size quantities only.			
			spose of in an approve rvice.	ed incinerator o	or contrac	t with a licensed waste disposal			
SECTION V	MI.	e	PECIAL PROT	ECTIONII	IEOEI	IATION			
Respiration Protect	nethodie beretein	COMPANY OF THE PARTY OF THE PAR	AND DESCRIPTION OF THE PROPERTY OF THE PARTY			ood with NIOSH/MSHA approved			
(Specify Type)			/ eguipment. Recommended	I Constal	No.	ng projektivit makayani kapan kita ni kata kita kata kita kita kita kita kata ka			
Ventilation	Local E	knaust Ical (General			-	ate to maintain below exposure limit			
Protective G	<u> </u>		Rubber.	Eye Prote	information the party	Chemical safety glasses.			
Other Protective Equipment	Lab	coat, apror	n, eye wash station, pr	oper gloves, ve	entilation	hood, fire extinguisher.			
SECTION	X	S	PECIAL PREC	AUTIONS					
Precautions to in Handling & S	be Tak Storing	en	Store in a cool, dry,	well-ventilated	area, awa	ay from heat, sparks and ignition to not take internally.			
Other Precau	tions	Read label on	container before using. Do no	eanel balnoo seew k	s when work	ng with chemicals.			
Onier Frecau						t with skin, eyes and clothing. contaminated clothing.			
For laboratory use or	ily. Not for	r drug, food o	r household use. Keep o	CONTRACTOR OF THE PERSON NAMED IN CONTRA	dren.	Chemical Salely			
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Approved Michael Raszeja

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materials and the agrety and health of employees. "Hazardous Materials Industrial Standards. Printed on recycled paper.

D.O.T. DENATURED ALCOHOL, 3, NA 1987

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20