

# MPORTANT

# MATERIAL SAFETY DATA SHEET

READ CAREFULLY BE	FORE USING CHEMICAL	SECTION
OSHA requires that this	form be kept on file.	Chemical
Product No. K	M 973 M	Synonyms
Product Name	ETHYL ALCOHOL, 70%	Formula
	IN WATER, (DENATURED)	CAS No

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES Principal Hazardous Component(s) % P.E.L. TLV Units

**24 HOUR EMERGENCY ASSISTANCE** 

CHEMTREC 800-424-9300

HAZARD RATING

C<sub>2</sub>H<sub>5</sub>OH

64-17-5

4-EXTREME

1-SLIGHT

**O-MINIMAL** 

RECTION

3-SEVERE 2-MODERATE

Ethyl Alcohol	CAS# 64-17-5	60-70	1000 ppm (TWA	.) 1000 ppm (TWA)
Ethyl Acetate	CAS# 141-78-6	<4	400 ppm	400 ppm (TWA)
*Methyl Isobutyl Ketone		<4	100 ppm(TWA)	50 ppm(TWA)
*Methyl Alcohol	CAS# 67-56-1	<4	200 ppm	200 ppm (TWA)
Water	CAS# 7732-18-5	30%	N/A	N/A
alo				

 $\star$  chemical subject to the reporting requirements of SARA Title III.

SECTION III		PHYSICAL	DATA			
Melting Point (°F)	)	<-114°C		Specific Gravity (H <sub>2</sub> O=1	0.8580	
Boiling Point (°F)		78°C		Percent Volatile by Volume (%)	100%	
Vapor Pressure (	m <mark>m Hg)</mark>	47 @ 25°C		Evaporation Rate ( Ether = 1)	<1	
Vapor Density (A	ir=1)	>1				x
Solubility in Wate	er	Miscible				
Appearance & O	dor	Clear-water white, alcoholic odor.				
SECTION IV	1	FIRE AND	EXPLO	SION HAZARE	DATA	
Flash Point	h Point 21°C (70°F) closed cup Flammable Lir		ble Limits in Air	Lower	Upper	
(Method Used)			% by Volume		3.3	19.0

Extinguisher Water spray, dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

**Special Firefighting Procedures** 

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### Unusual Fire and Explosion Hazards

Flammable! Autoignition temperature 422°C. Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back.

#### D.O.T. Ethanol, 3, UN1170, PGII

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

# HEALTH HAZARD DATA

Threshold Limit Value See Section II

SECTION V

2

3

0

**Health Hazard** 

Flammability

NAME Proprietary Solvent

Reactivity

## Effects of Overexposure

Toxic due to denaturants. Acute: Irritation to eyes, skin, lungs and GI tract. Narcosis, nausea, vision impairment. Chronic: Dermatitis. Blindness due to presence of methanol. Kidney and liver damage.

#### **Emergency and First Aid Procedures**

Skin: Remove any contaminated clothing. Wash skin with soap and water from at least 15 minutes. Get medical attention if irritation develops or persists. Eyes: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION VI	REACTIVITY DATA
Stability	Conditions to Avoid
Stable 🔳 Unstable 🗆	
Incompatibility (Materials to Avoid)	Strong oxidants, silver salts, halogen halides, alkali metals, metal hydrides.
Hazardous Decomposition Products	Carbon Oxides
Hazardous Polymerization	Conditions to Avoid
May Occur UWill Not Occur	
SECTION VII	SPILL OR LEAK PROCEDURES
17 August 1998, Mary 1996 And and 1997 August 1998 August 1997 August 1997 August 1997	Material is Released or Spilled

Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Small spills may be absorbed on paper towels and evaporated in a fume hood. Large spills:Contain and recover liquid when possible or absorb with verniculite, dry sand, earth or similar material. Scoop up with non-sparking tool and place in a closed container.

#### Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in accordance with all applicable Federal, state and local regulations.

SECTION V Respiration Pro (Specify Type)		Organic cartridge or self-contained.				
Ventilation	Local Exhaust	X		Special		
		Mechanical (General)	х		Other	
Protective Glov	/es	Appropriate chemical	resistant gloves	Eye Protection		Goggles
Other Protectiv Equipment	/e	Lab coat				
SECTION I	X	SPECIAL I	PRECAU	TIONS		
Precautions to b	e Taken in	Handling & Storin	g			
Keep container tightly clos						
Store in a co	ool well v	entilated locati	ion.			
Other Precautio	-free costa a Data		working with chamic			
Conditions Agg more susceptib	ravated/Tai	ot wear contact lenses when get Organs: Perso dney.	ons with skin,	eye, respirat	ory or k	idney/liver disorders may be
Approved by	Steven C.		ctive Date	4/5/2	005	For laboratory use only. Not for drug, food of household use. Keep out of reach of children

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