

MATERIAL SAFETY DATA SHEET

E2424

81835-01

SECTION I NAME

Product	Ethyl Alcohol, Denatured 95%
Chemical Synonyms	Proprietary Solvent
Formula	See Section II
RTECS #	—
C.A.S. No.	See Section II

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC 800-424-9300 Day (800) 256-2586	HEALTH	3			
	FLAMMABILITY	3			
	REACTIVITY	0			
HAZARD RATING	LEAST	SLIGHT	MODERATE	HIGH	EXTREME
	0	1	2	3	4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)		%	TLV Units
Ethyl Alcohol (190pf)	64-17-5	92.47	1000 ppm (TWA)
Methyl Alcohol	67-56-1	3.70	200 ppm (TWA)
Methyl Isobutyl Ketone	108-10-1	1.89	50 ppm (TWA)
Ethyl Acetate/Other	141-78-6	1.94	300 ppm (TWA)
Rubber Solvent/ Gasoline	Mixture	.97	NE

NA = Not Applicable
NE = None Established

SECTION III PHYSICAL DATA

Melting Point (°F)	<-114°C	Specific Gravity (H₂O = 1)	0.80
Boiling Point (°F)	78°C	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	47 @ 25°C	Evaporation Rate (Butyl Acetate = 1)	3.3
Vapor Density (Air = 1)	1.6		
Solubility in Water	100%		
Appearance and Odor	Clear colorless liquid, mild odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	13°C closed cup	Flammable Limits in Air % by Volume	Lower	Upper
			3.3	19.0
Extinguisher Media	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.

NFPA
Hazard
Rating



D.O.T.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-174

SECTION V HEALTH HAZARD DATA

Threshold Limited Value	See Section II
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 for 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	Unstable Stable	Conditions to Avoid	Avoid heat and ignition sources.
		X	
Incompatibility (Materials to avoid)	Strong oxidants, silver salts, halogen halides, alkali metals, metal hydrides.		
Hazardous Decomposition Products	Carbon oxides.		
Hazardous Polymerization	May Occur	Will Not Occur	Conditions to Avoid
		X	None

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case 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. Allow enough time for fumes to clear hood, then ignite paper in a suitable location away from combustible materials. Large spills: Contain and recover liquid when possible or absorb with vermiculite, dry sand, earth or similar material. Scoop up with non-sparking tool and place in a closed container.
--	---

Waste Disposal Method	Can be liquid incinerated in RCRA-approved combustible chamber or absorb with vermiculite, dry sand, earth, or similar material. Scoop up with non-sparking tools, place in closed container, and dispose in an approved facility. Do not flush to the sewer.
------------------------------	---

Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Organic cartridge or self-contained.		
Ventilation	Local Exhaust	Special	
	Mechanical (General)	Other	
		X	
Protective Gloves	Vinyl or Rubber	Eye Protection	Goggles
Other Protective Equipment	Lab coat		

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing	Store in a cool well ventilated location.
	Keep container tightly closed when not in use.

Other Precautions Read label on container before using.

Conditions Aggravated/Target Organs: Persons with skin, eye, respiratory or kidney/liver disorders may be more susceptible. Liver/Kidney.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No.	3	Date	12/1/04	Approved	R. M. Carlson	Chemical Safety Coordinator	RMC
-----------------	---	-------------	---------	-----------------	---------------	------------------------------------	-----

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.