

IMPORTANT **MATERIAL SAFETY DATA SHEET**

READ CAREFULLY BEFORE USING CHEMICAL
 OSHA requires that this form be kept on file.

Product No. KM 9 M

Product Name ETHYL ALCOHOL,
 DENATURED 95%

Principal Hazardous Component(s)

Ethyl Alcohol (190pf) C.A.S. #64-17-5
 Methyl Alcohol C.A.S. #67-56-1
 Methyl Isobutyl Ketone C.A.S. #108-10-1
 Ethyl Acetate/Other C.A.S. #141-78-6
 Rubber Solvent/Gasoline Mixture

★ chemical subject to the reporting requirements of SARA Title III.

Melting Point (°F)	<-114°C	Specific Gravity (H ₂ O=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 & Odor	Clear colorless liquid, mild odor		
Flash Point (Method Used)	63°F	Flammable Limits in Air % by Volume	Lower 3.3 Upper 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.

DEC 13 1995

D.O.T. Denatured alcohol, 3, NA1987, PGII

4-EXTREME 3-SEVERE 2-MODERATE 1-SLIGHT 0-MINIMAL	Health Hazard 3 Flammability 3 Reactivity 0
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Chemical Synonyms	Proprietary Solvent
Formula	C ₂ H ₅ OH
C.A.S. No.	64-17-5

	%	P.E.L.	TLV Units
Ethyl Alcohol (190pf)	92.47	N/A	1000 ppm (TWA)
Methyl Alcohol	3.70	N/A	200 ppm (TWA)
Methyl Isobutyl Ketone	1.89	N/A	50 ppm (TWA)
Ethyl Acetate/Other	1.94	N/A	300 ppm (TWA)
Rubber Solvent/Gasoline Mixture	.97	N/A	None Established

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.

SB14329 Nasco Primary Science Kit GR K-4
 SB14330 Nasco Intermediate Sc Kit GR 4-9

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 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.

Stability	Conditions to Avoid
Stable ☒ Unstable ☐	Avoid heat and ignition sources.
Incompatibility (Materials to Avoid)	Strong oxidants, silver salts, halogen halides, alkali metals, or hydrides.
Hazardous Decomposition Products	Carbon Oxides.
Hazardous Polymerization	Conditions to Avoid
May Occur ☐ Will Not Occur ☒	None

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 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

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

SECTION VII SPECIAL PROTECTION INFORMATION

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool well ventilated location.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

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

Approved by Steven C. Quandt Effective Date 11/14/94 For laboratory use only. Not for household use. Keep out of reach

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.

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