

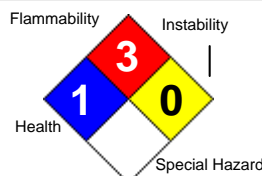
MATERIAL SAFETY DATA SHEET

Klean-Strip MEK Substitute

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1. Product and Company Identification

Product Code: 1636

Product Name: Klean-Strip MEK Substitute

Manufacturer Information

Company Name: W. M. Barr
2105 Channel Avenue
Memphis, TN 38113

Phone Number: (901)775-0100

Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346

Information: W.M. Barr Customer Service (800)398-3892

Web site address: www.wmbarr.com

Preparer Name: W.M. Barr EHS Dept (901)775-0100

Synonyms
GME71SUB, QME71SUB, CME71SUB

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV	Other Limits
1. Acetic acid, ethyl ester {Ethyl acetate}	141-78-6	100.0 %	400 ppm	400 ppm	No data.
Hazardous Components (Chemical Name)	RTECS #	OSHA STEL	OSHA CEIL	ACGIH STEL	ACGIH CEIL
1. Acetic acid, ethyl ester {Ethyl acetate}	AH5425000	No data.	No data.	No data.	No data.

3. Hazards Identification

Emergency Overview

Warning! Flammable Liquid and Vapor.

High vapor concentrations may cause drowsiness and irritation of the eyes or respiratory tract.

Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes

Potential Health Effects (Acute and Chronic)

No data available.

LD 50 / LC 50

Oral LD50 (rat) - 5,600 mg/kg

Inhalation LC50 (rat) - 6 h: 16,000 ppm

Dermal LD50 (rabbit) - >20 ml/kg (highest dose tested)

Skin irritation (rabbit) - very slight

Eye irritation (rabbit) - slight

Skin sensitization (human) - none

Signs and Symptoms Of Exposure

No data available.

Medical Conditions Generally Aggravated By Exposure

None known.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

4. First Aid Measures

Emergency and First Aid Procedures

Skin:

Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammability Classification: NFPA Class 1B

Flash Pt: 24 F (-4.4 C) Method Used: TAG Closed Cup

Explosive Limits: LEL: 2.2 UEL: 9

Autoignition Pt: 490 C (905.0 F)

Fire Fighting Instructions

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up.

Water spray may be ineffective in fighting the fire.

Flammable Properties and Hazards

Vapors may form explosive mixtures with air.

Vapors may travel to source of ignition and flash back.

Prevent buildup of vapors or gases to explosive concentrations.

Hazardous Combustion Products

Decomposition may produce carbon monoxide and carbon dioxide.

Extinguishing Media

Water spray, dry chemical, carbon dioxide or foam.

Unsuitable Extinguishing Media

None known.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc.

Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills: Dike far ahead of spill for later disposal.

Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.

7. Handling and Storage

Precautions To Be Taken in Handling

AVOID BREATHING VAPOR

Avoid prolonged or repeated contact with skin.

Use with adequate ventilation.

Wash thoroughly with soap and water after handling.

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Do not spread this product over large surface areas because fire and health safety risks will increase dramatically.

Precautions To Be Taken in Storing

Keep away from heat, sparks and flame.

Keep container tightly closed.

Keep from contact with oxidizing materials.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

For use in areas with inadequate ventilation or fresh air, wear a properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors.

For OSHA controlled work places and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding the appropriate TLV.

A dust mask does not provide protection against vapors.

Eye Protection

Safety glasses should be worn during normal handling of this material.

Where contact with the eyes or face is likely, a faceshield or chemical splash goggles should be worn to prevent eye contact.

Protective Gloves

Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile rubber may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

Engineering Controls (Ventilation etc.)

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.

Work/Hygienic/Maintenance Practices

Clothing that becomes soiled with product should be removed as soon as possible and laundered separately.

Wash hands thoroughly after use and before eating, drinking, or smoking.

Do not eat, drink, or smoke in the work area.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Melting Point: 83 C (181.4 F)

Boiling Point: 78 C (172.4 F)

Autoignition Pt: 490 C (905.0 F)

Flash Pt: 24 F (-4.4 C) Method Used: TAG Closed Cup

Explosive Limits: LEL: 2.2 UEL: 9

Specific Gravity (Water = 1): .8955 - .8985

Density: 7.44 - 7.468 LB/GL

Vapor Pressure (vs. Air or mm Hg): 75 MM HG at 68 F (20.0 C)

Vapor Density (vs. Air = 1): 3.04 (Air=1)

Evaporation Rate (vs Butyl Acetate=1): 4.1

Solubility in Water: 64 g/l at 25 C (77.0 F)

Percent Volatile: 100 % by weight.

VOC / Volume: 900 G/L

HAP / Volume: NP

Viscosity: .44 CP at 25 C (77.0 F)

Octanol/Water Partition Coefficient: 0.73

Appearance and Odor
 Clear liquid, sweet odor

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability
 No data available.

Incompatibility - Materials To Avoid
 Incompatible with strong oxidizing agents.

Hazardous Decomposition Or Byproducts
 No data available.

Hazardous Polymerization: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization
 No data available.

11. Toxicological Information

Refer to Hazards Section

Chronic Toxicological Effects

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Acetic acid, ethyl ester {Ethyl acetate}	141-78-6	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

Oxygen Demand Data

BOD-5 1,240 mg/g

BOD-20 1,240 mg/g

BOD-20 1,430 mg/g
 COD 1,540 mg/g
 ThBOD 1,820 mg/g
 Acute Aquatic Effects Data
 48 h LC-50 (golden orfe) 270 mg/l
 48 h LC-50 (golden orfe) 333 mg/l
 24 h LC-50 (daphnid) 3,090 mg/l
 24 h EC-50 (daphnid) 3,090 mg/l

13. Disposal Considerations

Waste Disposal Method

Dispose in accordance with applicable local, state and federal regulations.

RCRA Waste ID Code: D001

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: Ethyl acetate
DOT Hazard Class: 3
DOT Hazard Label: FLAMMABLE LIQUID
UN/NA Number: UN1173
Packing Group: II

Additional Transport Information

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

The shipper/supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Acetic acid, ethyl ester {Ethyl acetate}	141-78-6	No	Yes 5000 LB	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Acetic acid, ethyl ester {Ethyl acetate}	141-78-6	HAP, ODC ()	No	Inventory	No

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

Sec.302: EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.

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- Sec.304:** EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.
- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

TSCA (Toxic Substances Control Act) Lists:

- Inventory:** Chemical Listed in the TSCA Inventory.
- 5A(2):** Chemical Subject to Significant New Rules (SNURS)
- 6A:** Commercial Chemical Control Rules
- 8A:** Toxic Substances Subject To Information Rules on Production
- 8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- 8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- 8C:** Records of Allegations of Significant Adverse Reactions
- 8D:** Health and Safety Data Reporting Rules
- 8D TERM:** Health and Safety Data Reporting Rule Terminations
- 12(b):** Notice of Export

Other Important Lists:

- CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical
- CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant
- CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
- CA PROP 65:** California Proposition 65

International Regulatory Lists:

EPA Hazard Categories:

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

- Yes No Acute (immediate) Health Hazard
- Yes No Chronic (delayed) Health Hazard
- Yes No Fire Hazard
- Yes No Sudden Release of Pressure Hazard
- Yes No Reactive Hazard

16. Other Information

Company Policy or Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information 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 determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required