

## Klean Strip Methyl Ethyl Ketone MEK

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Supersedes Revision: 03/26/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	Klean Strip Methyl Ethyl Ketone MEK	
<b>Company Name:</b>	W. M. Barr 2105 Channel Avenue Memphis, TN 38113	<b>Phone Number:</b> (901)775-0100
<b>Web site address:</b>	www.wmbarr.com	
<b>Emergency Contact:</b>	3E 24 Hour Emergency Contact	(800)451-8346
<b>Information:</b>	W.M. Barr Customer Service	(800)398-3892
<b>Intended Use:</b>	Paint, stain, and varnish thinning.	
<b>Synonyms:</b>	CME71, GME71, QME71	
<b>Additional Information</b>	This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.	

## 2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 2

Serious Eye Damage/Eye Irritation, Category 2A

Specific Target Organ Toxicity (single exposure), Category 3



<b>GHS Signal Word:</b>	<b>Danger</b>
<b>GHS Hazard Phrases:</b>	H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.
<b>GHS Precaution Phrases:</b>	P233: Keep container tightly closed. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280: Wear protective gloves/protective clothing/eye protection/face protection. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P243: Take precautionary measures against static discharge. P242: Use only non-sparking tools. P264: Wash hands thoroughly after handling. P261: Avoid breathing gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area.
<b>GHS Response Phrases:</b>	P370+378: In case of fire, use dry chemical to extinguish. P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313: If eye irritation persists, get medical advice/attention. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312: Call a POISON CENTER/doctor if you feel unwell.
<b>GHS Storage and Disposal Phrases:</b>	P403+235: Store in cool/well-ventilated place. P501: Dispose of contents/container according to local, state and federal regulations.

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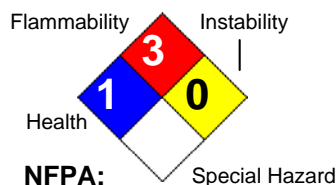
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P403+233: Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.

P405: Store locked up.

## Hazard Rating System:

HEALTH		1
FLAMMABILITY		3
REACTIVITY		
PPE		X



## HMIS:

## OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

Potential Health Effects  
(Acute and Chronic):

Inhalation Acute Exposure Effects:

Vapor harmful. May cause dizziness, headache, watering of eyes, irritation of respiratory tract, drowsiness, nausea, and numbness in fingers, arms, and legs.

Skin Contact Acute Exposure Effects:

May cause drying of skin, and numbness in fingers and arms. Liquid is absorbed readily.

Eye Contact Acute Exposure Effects:

This material is an eye irritant. May cause irritation and pain, conjunctivitis of eyes, burns, corneal ulcerations of the eye, stinging, redness, and tearing. Vapors or mist can irritate eyes.

Ingestion Acute Exposure Effects:

Harmful if swallowed. May cause dizziness, headache, nausea, and irritation of mouth, throat, and stomach.

Chronic Exposure Effects:

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. May cause weakness, fatigue, skin irritation, and numbness in hands and feet.

Medical Conditions Generally None known.

Aggravated By Exposure:

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
78-93-3	Methyl ethyl ketone {MEK; 2-Butanone}	99.0 -100.0 %	EL6475000

### 4. FIRST AID MEASURES

Emergency and First Aid  
Procedures:

Inhalation:

If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

Skin Contact:

Irritation may result. Immediately wash with soap and water.

Eye Contact:

Immediately flush with water, remove any contact lenses, continue flushing with water for at least 15 minutes, then get medical attention.

Ingestion:

Call you local poison control center, hospital emergency room, or physician immediately for instructions.

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**Note to Physician:** Call your local poison control center for further information.

## 5. FIRE FIGHTING MEASURES

**Flash Pt:** OSHA Class IB  
25.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)

**Explosive Limits:** LEL: 1.8 % at 77.0 F UEL: 11.5 % at 77.0 F

**Autoignition Pt:** 759.00 F

**Suitable Extinguishing Media:** Use carbon dioxide, dry powder, or foam.

**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. Stay away from heads of containers that have been exposed to intense heat or flame.

**Flammable Properties and Hazards:** No data available.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled:** Cleanup:  
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.

Small Spills:  
Take up liquid 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.

## 7. HANDLING AND STORAGE

**Precautions To Be Taken in 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.

**Precautions To Be Taken in Storing:** Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
78-93-3	Methyl ethyl ketone {MEK; 2-Butanone}	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	No data.

**Respiratory Equipment (Specify Type):** For OSHA controlled work place and other regular users --Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provided protection against vapors.

**Eye Protection:** Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

**Protective Gloves:** Wear gloves resistant to MEK. Consult with your safety supplier for the proper glove

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material depending on your specific use and conditions. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product.

**Other Protective Clothing:**

Various application methods can dictate the use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

**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:**

A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas [X] Liquid [ ] Solid
<b>Appearance and Odor:</b>	Characteristic ketone odor.
<b>Melting Point:</b>	No data.
<b>Boiling Point:</b>	175.00 F
<b>Autoignition Pt:</b>	759.00 F
<b>Flash Pt:</b>	25.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)
<b>Explosive Limits:</b>	LEL: 1.8 % at 77.0 F UEL: 11.5 % at 77.0 F
<b>Specific Gravity (Water = 1):</b>	0.8
<b>Density:</b>	6.689 LB/GL at 77.0 F
<b>Vapor Pressure (vs. Air or mm Hg):</b>	83 MM HG at 75.0 F
<b>Vapor Density (vs. Air = 1):</b>	< 1
<b>Evaporation Rate:</b>	> 1
<b>Solubility in Water:</b>	Partially
<b>Percent Volatile:</b>	99.999 % by weight.
<b>VOC / Volume:</b>	825.0000 G/L

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## 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** No data available.

**Incompatibility - Materials To Avoid:** Incompatible with strong oxidizing agents, strong caustics, and hydrogen peroxide.

**Hazardous Decomposition Or Byproducts:** Decomposition may produce carbon monoxide and oxides of carbon.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** Refer to section 2 for acute and chronic effects.  
 CAS# 78-93-3:  
 Standard Draize Test, Eyes, Human, 350.0 PPM.  
 Result:  
 Behavioral: Anticonvulsant.  
 - Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3	Methyl ethyl ketone {MEK; 2-Butanone}	n.a.	n.a.	n.a.	n.a.

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION

## LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Methyl ethyl ketone  
**DOT Hazard Class:** 3 FLAMMABLE LIQUID  
**UN/NA Number:** UN1193 **Packing Group:** II



**Additional Transport Information:** The 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.

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## 15. REGULATORY INFORMATION

## EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
78-93-3	Methyl ethyl ketone {MEK; 2-Butanone}	No	Yes 5000 LB	No

This material meets the EPA  Yes  No Acute (immediate) Health Hazard

'Hazard Categories' defined  Yes  No Chronic (delayed) Health Hazard

for SARA Title III Sections  Yes  No Fire Hazard

311/312 as indicated:  Yes  No Sudden Release of Pressure Hazard

Yes  No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
78-93-3	Methyl ethyl ketone {MEK; 2-Butanone}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

## 16. OTHER INFORMATION

Revision Date: 04/15/2015

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

Additional Information About No data available.

This Product:

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.