

MATERIAL SAFETY DATA SHEET

Klean-Strip Denatured Alcohol

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| | |
|--------------|---|
| HEALTH | |
| FLAMMABILITY | 3 |
| PHYSICAL HAZ | 0 |
| PPE | G |

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1. Product and Company Identification

Product Code: QSL26
Product Name: Klean-Strip Denatured Alcohol
Reference #: 1625.5
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 Department (901)775-0100

2. Composition/Information on Ingredients

| Hazardous Components (Chemical Name) | CAS # | Percentage | OSHA PEL | ACGIH TWA | Other Limits |
|--------------------------------------|-----------|--------------|-----------|------------|--------------|
| 1. Ethyl alcohol | 64-17-5 | 45.0 -50.0 % | 1000 ppm | 1000 ppm | No data. |
| 2. Methanol | 67-56-1 | 45.0 -50.0 % | 200 ppm | 200 ppm | No data. |
| 3. Methyl isobutyl ketone | 108-10-1 | 1.0 -4.0 % | 100 ppm | 50 ppm | No data. |
| Hazardous Components (Chemical Name) | RTECS # | OSHA STEL | OSHA CEIL | ACGIH STEL | ACGIH CEIL |
| 1. Ethyl alcohol | KQ6300000 | No data. | No data. | No data. | No data. |
| 2. Methanol | PC1400000 | No data. | No data. | 250 ppm | No data. |
| 3. Methyl isobutyl ketone | SA9275000 | No data. | No data. | 75 ppm | No data. |

3. Hazards Identification

Emergency Overview

Danger! Flammable! Keep away from heat, sparks, flame, and all other sources of ignition. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and all other sources of ignition during use and until all vapors are gone. Beware of static electricity that may be generated by synthetic clothing and other sources.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Health Hazards (Acute and Chronic)

Inhalation Acute Exposure Effects:

Vapor harmful. May cause dizziness, headache, watering of eyes, irritation of respiratory tract, irritation to the eyes, drowsiness, nausea, other central nervous system effects, spotted vision, dilation of pupils, and convulsions.

Skin Contact Acute Exposure Effects:

May cause irritation, drying of skin, redness, and dermatitis. May cause symptoms listed under inhalation. May be absorbed through damaged skin.

Eye Contact Acute Exposure Effects:

May cause irritation.

Ingestion Acute Exposure Effects:

Poison. Cannot be made non-poisonous. May be fatal or cause blindness. May produce fluid in the lungs and pulmonary edema. May cause dizziness, headache, nausea, drowsiness, loss of coordination, stupor, reddening of face and or neck, liver, kidney and heart damage, coma, and death. May produce symptoms listed under

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inhalation.

Chronic Exposure Effects:

May cause symptoms listed under inhalation, dizziness, fatigue, tremors, permanent central nervous system changes, blindness, pancreatic damage, and death.

Signs and Symptoms Of Exposure

No data available.

Medical Conditions Generally Aggravated By Exposure

Diseases of the liver.

OSHA Hazard Classes:

HEALTH HAZARDS : N/E

PHYSICAL HAZARDS : N/E

TARGET ORGANS & EFFECTS: N/E

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:

Wash with soap and water.

Eye Contact:

Flush with large quantities of water for at least 15 minutes. If irritation from contact persists, get medical attention.

Ingestion:

Call your poison control center, hospital emergency room or physician immediately for instructions to induce vomiting.

Note to Physician

Poison. This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis. Call your local poison control center for further instructions.

5. Fire Fighting Measures

Flammability Classification:

OSHA Class IB

Flash Pt:

45.00 F Method Used: SCC

Explosive Limits:

LEL: 1.00

UEL: No data.

Autoignition Pt:

No data.

Special Fire Fighting Procedures

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined area. 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.

Unusual Fire and Explosion Hazards

No data available.

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Extinguishing Media

Use carbon dioxide, dry powder, or foam.

Unsuitable Extinguishing Media

No data available.

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.

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

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 provide 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 impermeable gloves. 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. 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. 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.

Ventilation

Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with 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.

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9. Physical and Chemical Properties

Physical States: ☐ Gas ☒ Liquid ☐ Solid
Melting Point: No data.
Boiling Point: 147.00 F
Autoignition Pt: No data.
Flash Pt: 45.00 F Method: SCC
Explosive Limits: LEL: 1.00 UEL: No data.
Specific Gravity: No data.
Bulk Density: 6.61 LB/GA
Vapor Pressure: No data.
Vapor Density: No data.
Evaporation Rate: No data.
Solubility in Water: No data.
Percent Volatile: 100.0 % by weight.
VOC / Volume: 792.0000 G/L
Corrosion Rate: No data.
pH: No data.
Appearance and Odor
No data available.

10. Stability and Reactivity

Stability: Unstable ☐ Stable ☒
Conditions To Avoid - Instability
No data available.
Incompatibility - Materials To Avoid
Incompatible with strong oxidizing agents.
Hazardous Decomposition Or Byproducts
Decomposition may produce carbon monoxide and carbon dioxide.
Hazardous Polymerization: Will occur ☐ Will not occur ☒
Conditions To Avoid - Hazardous Polymerization
No data available.

11. Toxicological Information

Toxicological Information
No data available.
Carcinogenicity/Other Information
No data available.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

Ecological Information
No data available.

13. Disposal Considerations

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

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14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name

No data available.

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. Ethyl alcohol | 64-17-5 | No | No | No | No |
| 2. Methanol | 67-56-1 | No | Yes 5000 LB | Yes | No |
| 3. Methyl isobutyl ketone | 108-10-1 | No | Yes 5000 LB | Yes | Yes |

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)

| | CAS # | EPA CAA | EPA CWA NPDES | EPA TSCA | CA PROP 65 |
|---------------------------|----------|---------|---------------|----------|------------|
| 1. Ethyl alcohol | 64-17-5 | No | No | No | No |
| 2. Methanol | 67-56-1 | HAP | No | No | No |
| 3. Methyl isobutyl ketone | 108-10-1 | HAP | No | No | 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. |
| 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:

| | |
|----------|---|
| 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 |

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 |

EPA Hazard Categories:

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

| | |
|---|-----------------------------------|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Acute (immediate) Health Hazard |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Chronic (delayed) Health Hazard |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Fire Hazard |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Reactive Hazard |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Sudden Release of Pressure Hazard |

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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.