1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Klean-Strip Aircraft Remover
Company Name: W. M. Barr
2105 Channel Avenue
Memphis, TN 38113
Phone Number: (901)775-0100

Web site address: www.wmbarr.com
Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346
Information: W.M. Barr Customer Service (800)398-3892

Intended Use: Remove a wide range of finishes from the metal surfaces of automobiles, trucks and cycles

Synonyms: GAR343, QAR343, GDX586

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Germ Cell Mutagenicity, Category 1A
Carcinogenicity, Category 1B
Target Organ Systemic Toxicity (single exposure), Category 1

GHS Signal Word: Danger
GHS Hazard Phrases:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H340: May cause genetic defects.
H350: May cause cancer.
H370: Causes damage to organs.

GHS Precaution Phrases:
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P362+364: Take off contaminated clothing and wash it before reuse.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P281: Use personal protective equipment as required.
P260: Do not breathe gas/mist/vapours/spray.
P270: Do not eat, drink or smoke when using this product.

GHS Response Phrases:
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P321: Specific treatment see directions on this label.
P332+313: If skin irritation occurs, get medical advice/attention.
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.
P308+313: IF exposed or concerned: Get medical attention/advice.

GHS Storage and Disposal Phrases:
P405: Store locked up.
P501: Dispose of contents/container according to local, state and federal regulations.
Hazard Rating System:

- Health: 2
- Flammability: 1
- Physical: 0
- PPE: X
- Instability: 0
- Special Hazard: X
- NFPA: 2

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; injuries to mucous membranes; irritation of the throat and respiratory tract; nausea; numbness in fingers, arms and legs; bronchospasm; hot flashes; tissue damage; spotted vision; dilation of pupils; increase of carboxyhemoglobin levels, which can cause stress to the cardiovascular system; arm, leg, and chest pains; depression of the central nervous system; bronchitis; pulmonary edema; chemical pneumonitis; difficulty breathing; vomiting; visual disturbances; giddiness; intoxication; sleepiness; cough and dyspnea; cold, clammy, extremities, and diarrhea. Severe overexposure may cause irregular or rapid heartbeat; convulsions; unconsciousness; and death. Elevated carboxyhemoglobin levels can be additive to the increase caused by smoking and other carbon monoxide sources.

Skin Contact Acute Exposure Effects
This product is a skin irritant. May be absorbed through the skin. May cause irritation; burns; blisters; tissue destruction; drying and defatting of skin; and dermatitis. May cause symptoms listed under inhalation. Vapors and mist can irritate moist skin.

Eye Contact Acute Exposure Effects
This material is an eye irritant. May cause irritation and pain; conjunctivitis of eyes; corneal ulcerations of the eye; burns; and blindness. Vapors and mist can irritate eyes.

Ingestion Acute Exposure Effects
Poison. Cannot be made non-poisonous. May be fatal or cause blindness. May cause irritation to mouth, throat and stomach; headache; nausea; dizziness; stupor; liver, kidney and heart damage; depression of the central nervous system; narcosis; burning of esophagus, stomach, mouth and throat; vomiting; gastrointestinal irritation; diarrhea; abdominal pain; collapse; and death. May be corrosive to mouth and throat. May produce symptoms listed under inhalation. Liquid aspirated into lungs may cause chemical pneumonitis and systemic effects.

Chronic Exposure Effects
Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged or repeated contact may cause dermatitis. Prolonged skin contact may result in absorption of a harmful amount of this material. May cause headache; conjunctivitis; gastric disturbances; skin irritation; permanent central nervous system changes; decreased response to visual and auditory stimulation; visual impairment or blindness; hallucinations; changes in blood; blood disorders; kidney, liver or pancreatic damage; insomnia; giddiness; and death. May cause additional symptoms listed under inhalation.

Medical Conditions Generally Aggravated By Exposure:
Diseases of the blood; skin; eyes; liver; kidneys; lungs; cardiovascular; pulmonary; and respiratory systems; alcoholism; and rhythm disorders of the heart.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>Dichloromethane {Methylene chloride; R-30; Freon 30}</td>
<td>72.6 %</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methanol {Methyl alcohol; Carbinol; Wood alcohol}</td>
<td>6.2 %</td>
</tr>
<tr>
<td>1336-21-6</td>
<td>Ammonium hydroxide {Ammonia aqua; Ammonium liquor}</td>
<td>4.9 %</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>Xylene (mixed isomers) {Benzene, dimethyl-}</td>
<td>4.0 %</td>
</tr>
<tr>
<td>64742-47-8</td>
<td>Hydrotreated light distillate (petroleum)</td>
<td>3.0 %</td>
</tr>
<tr>
<td>68132-50-3</td>
<td>Fatty acid soap</td>
<td>1.6 %</td>
</tr>
</tbody>
</table>

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.

Signs and Symptoms Of Exposure:
See Potential Health Effects.

Note to Physician:
Poison. This product contains methylene chloride and methanol.

This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can 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 to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. Adrenalin should never be given to a person overexposed to methylene chloride.

This material sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. This material is metabolized to carbon monoxide. Consequently, elevations in carboxyhemoglobin as high as 50% have been reported, and levels may continue to rise for several hours after exposure has ceased. Data in experimental animals suggest there is a narrow margin between concentrations causing
5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Pt:</td>
<td>No data.</td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>LEL: No data. UEL: No data.</td>
</tr>
<tr>
<td>Autoignition Pt:</td>
<td>No data.</td>
</tr>
<tr>
<td>Suitable Extinguishing Media:</td>
<td>Use carbon dioxide, dry powder or foam.</td>
</tr>
<tr>
<td>Fire Fighting Instructions:</td>
<td>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. Contact of liquid or vapor with flame or hot surfaces will produce toxic gases and a corrosive residue that will cause deterioration of metal.</td>
</tr>
<tr>
<td>Flammable Properties and Hazards:</td>
<td>Flashpoint: NO FLASH TO BOILING</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Steps To Be Taken In Case Material Is Released Or Spilled:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean-up</td>
<td>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.</td>
</tr>
<tr>
<td>Small Spills</td>
<td>Take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.</td>
</tr>
<tr>
<td>Large Spills</td>
<td>Dike far ahead of spill for later disposal.</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>Dispose in accordance with applicable local, state and federal regulations.</td>
</tr>
</tbody>
</table>

7. HANDLING AND STORAGE

<table>
<thead>
<tr>
<th>Precautions To Be Taken in Handling:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Wear protective clothing and take precautions to prevent all skin and eye contact.</td>
</tr>
<tr>
<td>Store in a cool, dry place. Exposure to high temperatures or prolonged exposure to sun may cause can to leak or swell. Once opened, remover should be used within six months or discarded to avoid can deterioration. Do not store near flames or at elevated temperatures.</td>
<td></td>
</tr>
</tbody>
</table>
Klean-Strip Aircraft Remover

SAFETY DATA SHEET

CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits
--- | --- | --- | --- | ---
75-09-2 | Dichloromethane {Methylene chloride; R-30; Freon 30} | PEL: 25 ppm STEL: 125 ppm (15 min) | TLV: 50 ppm | No data.

67-56-1 | Methanol {Methyl alcohol; Carbinol; Wood alcohol} | PEL: 200 ppm | TLV: 200 ppm | No data.

1336-21-6 | Ammonium hydroxide {Ammonia aqua; Ammonium liquor} | No data. | No data. | No data.

1330-20-7 | Xylene (mixed isomers) {Benzene, dimethyl-} | PEL: 100 ppm | TLV: 100 ppm | No data.

64742-47-8 | Hydrotreated light distillate (petroleum) | No data. | TLV: 200 mg/m3 | No data.

68132-50-3 | Fatty acid soap | No data. | No data. | 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 self-contained breathing apparatus for chlorinated 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. Chemical goggles or face shields are recommended when splashing or spraying of chemical is possible. A faceshield provides more protection to help reduce chemical contact to the face and eyes.

Protective Gloves:

Wear gloves with as much resistance to the chemical ingredients as possible. Laminate film gloves offer the best protection. Other glove materials will be degraded by methylene chloride, but may provide protection for some amount of time, based on the type of glove and the 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. 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.

Engineering Controls (Ventilation etc.):

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.

Work/Hygienic/Maintenance Practices:

A source of clean water should be available in the work area for flushing of the eyes and skin.

Wash hands thoroughly after use.
Do not eat, drink, or smoke in the work area.

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.
9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance and Odor: No data available.

Melting Point: No data.

Boiling Point: ~ 107.00 F

Autoignition Pt.: No data.

Flash Pt.: No data.

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.1683 - 1.1985

Vapor Pressure (vs. Air or mm Hg): 350 MM HG at 20.0 C

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

Evaporation Rate: > 1

Solubility in Water: Partial

pH: 10 - 12

Percent Volatile: 95.0 % by weight.

VOC / Volume: 12.0000 % WT

10. STABILITY AND REACTIVITY

Stability: Unstable [ ] Stable [ X ]

Conditions To Avoid -

Instability:

Incompatibility - Materials To Avoid: Unstable [ ] Stable [ X ]

Incompatible with strong oxidizing agents; strong caustics; strong alkalis; oxygen; nitrogen peroxide; chemically active metals such as aluminum and magnesium; sodium; potassium; and nitric acid.

Hazardous Decomposition Or Byproducts:

Thermal decomposition may produce hydrogen chloride; chlorine gas; small quantities of phosgene; carbon monoxide; carbon dioxide; formaldehyde; and unidentified organic compounds in black smoke.

Possibility of Hazardous Reactions:

Will occur [ ] Will not occur [ X ]

Conditions To Avoid -

Hazardous Reactions:

Will not occur.
11. TOXICOLOGICAL INFORMATION

Toxicological Information: This product has not been tested as a whole.

CAS# 75-09-2:
  - Result:
    - Endocrine: Changes in spleen weight.
    - Blood: Changes in spleen.
- Tumorigenic Effects: TCLo, Inhalation, Rat, 3500. PPM, 6 Y.
  - Result:
    - Tumorigenic: Carcinogenic by RTECS criteria.
    - Endocrine: Tumors.

Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, Severe.
- Result:
  - Effects on Newborn: Growth statistics (e.g., reduced weight gain).
  - Effects on Newborn: Physical.

Standard Draize Test, Skin, Species: Rabbit, 810.0 MG, 24 H, Severe.
- Result:
  - Specific Developmental Abnormalities: Musculoskeletal system.
- Toxicological Information: European Journal of Toxicology and Environmental Hygiene., For publisher information, see TOERD9, Paris France, Vol/p/yr: 9,171, 1976

CAS# 67-56-1:
- Mutagenicity: Mutation test: DNA damage., Oral, Rat, 10.00 UMOL/KG.
  - Result:
    - Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.
    - Tumorigenic: Tumors at site of application.

CAS# 1330-20-7:
- Standard Draize Test, Skin, Species: Rabbit, 100.0 %, Moderate.
  - Result:
    - Specific Developmental Abnormalities: Craniofacial (including nose and tongue).
- Toxicological Information: AMA Archives of Industrial Health., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 14,387, 1956

Standard Draize Test, Eyes, Species: Rabbit, 5.000 MG, 24 H, Severe.
- Result:
  - Behavioral: General anesthetic.
  - Behavioral: Somnolence (general depressed activity).
  - Behavioral: Irritability.
12. ECOLOGICAL INFORMATION

General Ecological Information: This product has not been tested as a whole.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: UN1760, Corrosive Liquid, N.O.S. 8, PGI (Ammonium Hydroxide, Methylene Chloride)

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: 1760

Packing Group: I

15. REGULATORY INFORMATION

This material meets the EPA "Hazard Categories" defined for SARA Title III Sections as indicated:

[X] Yes [ ] No Sudden Release of Pressure Hazard
[ ] Yes [X] No Reactive Hazard

CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists

75-09-2 Dichloromethane {Methylene chloride; R-30; Freon 30} CAA HAP, ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: Yes

67-56-1 Methanol {Methyl alcohol; Carbinol; Wood alcohol} CAA HAP, ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes

1336-21-6 Ammonium hydroxide {Ammonia aqua; Ammonium liquor} CAA HAP, ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

1330-20-7 Xylene (mixed isomers) {Benzene, dimethyl-} CAA HAP, ODC: HAP; CWA NPDES: Yes; TSCA: Yes -
Regulatory Information:

16. OTHER INFORMATION

Revision Date: 12/24/2014
Preparer Name: W.M. Barr EHS Dept  (901)775-0100

Additional Information About This Product: No data available.

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.