1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Klean Strip Toluene  
**Reference #:** 1645  
**Company Name:** W. M. Barr  
**Phone Number:** (901)775-0100  
**Web site address:** www.wmbarr.com  
**Emergency Contact:** 3E  24 Hour Emergency Contact  
**Information:** W.M. Barr Customer Service  
**Emergency Contact:** (800)451-8346  
**W.M. Barr Customer Service**  
**Information:** (800)398-3892  

**Synonyms:** CTO42, GTO42  
**Additional Information:** 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**
**Skin Corrosion/Irritation, Category 2**
**Serious Eye Damage/Eye Irritation, Category 2A**
**Toxic To Reproduction, Category 2**
**Specific Target Organ Toxicity (single exposure), Category 3**
**Specific Target Organ Toxicity (repeated exposure), Category 2**
**Aspiration Toxicity, Category 1**

**GHS Signal Word:** Danger

**GHS Hazard Phrases:**
- H225: Highly flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H361: Suspected of damaging fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.

**GHS Precaution Phrases:**
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P203: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.
- P241: Use explosion-proof electrical/ventilating/lighting equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P260: Do not breathe gas/mist/vapors/spray.
- P264: Wash hands thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P281: Use personal protective equipment as required.
- P235: Keep cool.
GHS Response Phrases:

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313: IF exposed or concerned: Get medical attention/advice.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P314: Get medical attention/advice if you feel unwell.
P321: Specific treatment see label.
P331: Do NOT induce vomiting.
P332+313: If skin irritation occurs, get medical advice/attention.
P337+313: If eye irritation persists, get medical advice/attention.
P362: Take off contaminated clothing and wash before re-use.
P370+378: In case of fire, use dry chemical powder to extinguish.

GHS Storage and Disposal Phrases:
P403+233: Store container tightly closed in well-ventilated place.
P405: Store locked up.
P501: Dispose of contents/container according to local, state and federal regulations.

Hazard Rating System:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL</th>
<th>PPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Hazard Rating System:

Health: 2
Flammability: 3
Instability: 3
Physical: 0
PPE: X

NFPA: Special Hazard

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, depression of central nervous system, loss of appetite, fatigue, hallucinations. Severe overexposure may cause coma, anesthesia and irregular heartbeat, and death. Intentional misuse of this product by deliberately concentrating and inhaling can be harmful or fatal.

Skin Contact Acute Exposure Effects:
This product is a skin irritant. It may be absorbed through the skin. It may cause irritation, dermatitis, drying of skin, and numbness in fingers and arms. May increase severity of symptoms listed under inhalation.

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

Ingestion Acute Exposure Effects:
Harmful or fatal if swallowed. May cause headache, nausea, vomiting, burning sensation in mouth and stomach, loss of coordination, gastrointestinal irritation, diarrhea, loss of appetite, and coma.

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. May cause dizziness, headache, nausea, skin irritation, heart palpitations, permanent central nervous system changes, some loss of memory, kidney damage, and
Klean Strip Toluene

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03/27/2015 Supersedes Revision: 04/16/2015

04/16/2015 Printed:

Diseases of the skin, liver, and kidneys.

Medical Conditions Generally Aggravated By Exposure:

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Concentration</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene (Benzene, Methyl-; Toloul)</td>
<td>100.0 %</td>
<td>XS5250000</td>
</tr>
</tbody>
</table>

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

5. FIRE FIGHTING MEASURES

Flash Pt: 41.00 F Method Used: TAG Closed Cup
Explosive Limits:
LEL: 1.0 at 68.0 F UEL: 7.0 at 68.0 F
Autoignition Pt: No data.

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

Unsuitable Extinguishing Media: Solid streams of water may be ineffective and spread material.

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.

6. ACCIDENTAL RELEASE MEASURES

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

Vapors may cause flash fire or ignite explosively.

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.

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GHS format
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:
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 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

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Partial Chemical Name</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene (Benzene, Methyl-; Toluol)</td>
<td>PEL: 200 ppm</td>
<td>TLV: 50 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 500 ppm/(10min)</td>
<td>STEL: 300 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CEIL: 300 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:
Chemical splash goggles.

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. If the work area is not well ventilated, do not use this product. 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:

- Wash hands thoroughly after use and before eating, drinking, smoking, or using the restroom.
- 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: No data.
Boiling Point: > 230.00 F
Autoignition Pt: No data.
Flash Pt: 41.00 F Method Used: TAG Closed Cup
Explosive Limits: LEL: 1.0 at 68.0 F  UEL: 7.0 at 68.0 F
Specific Gravity (Water = 1): 0.858 - 0.868 at 25.0 C
Density: 7.189 LB/GL at 25.0 C
Vapor Pressure (vs. Air or mm Hg): 47 MM HG at 68.0 F
Vapor Density (vs. Air = 1): No data.
Evaporation Rate: No data.
Solubility in Water: No data.
Percent Volatile: 100.0 % by weight.
VOC / Volume: 864.0000 G/L

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: Decomposition may produce carbon monoxide and carbon dioxide.
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# 108-88-3:
Reproductive Effects: TCLo, Inhalation, Rat, 800.0 MG/M3, 6 H, female 14-20 day(s) after conception.
Result:
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
Effects on Newborn: Behavioral.
- Brazilian Journal of Medical and Biological Research., Vol/p/yr: 23,533, 1990

Standard Draize Test, Eyes, Species: Rabbit, 2.000 MG, 24 H, Severe.
Result:
Effects on Embryo or Fetus: Other effects to embryo.
Specific Developmental Abnormalities: Eye, ear.

IARC 3: Not Classifiable as to Carcinogenicity in Humans.
ACGIH A4 - Not Classifiable as a Human Carcinogen.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene {Benzene, Methyl-; Toluol}</td>
<td>n.a.</td>
<td>3</td>
<td>A4</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with local, state, and federal laws.

Do not place material in general trash.

Do not allow material to enter bodies of water or sewers.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Toluene
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1294 Packing Group: II

15. REGULATORY INFORMATION

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

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene {Benzene, Methyl-; Toluol}</td>
<td>No</td>
<td>Yes 1000 LB</td>
<td>Yes</td>
</tr>
</tbody>
</table>

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections

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

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CAS #  Hazardous Components (Chemical Name)  Other US EPA or State Lists
108-88-3  Toluene  {Benzene, Methyl-;  Toluol}  CAA HAP,ODC: HAP;  CWA NPDES: Yes;  TSCA: Yes -

Inventory, 8A CAIR;  CA PROP.65: Yes

Regulatory Information
Statement: All components of this material are listed on the TSCA Inventory or are exempt.

16. OTHER INFORMATION

Revision Date: 04/16/2015
Preparer Name: W.M. Barr EHS Dept  (901)775-0100
Additional Information About This Product: No data available.

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