1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Roberts 1902 Cleaner and Thinner  
Product Code: 1902C  
PRODUCT USES: For cleaning tools & spills of adhesive. Compatible thinner for 1010 Contact Cement.

MANUFACTURER: ROBERTS CAPITOL  
ADDRESS: 300 CROSS PLAINS BLVD.  
DALTON, GA 30721

24 HOUR (CANUTEC) PHONE: (613) 996-6666  
EFFECTIVE DATE: 10/17/2012 Reviewed 10/01/2015  
INFORMATION PHONE: (905) 799-4444  
Issued by: M. King

2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>APPROX. %</th>
<th>UN#</th>
<th>CAS#</th>
<th>PEL</th>
<th>TLV</th>
<th>LD50 (oral/dermal)</th>
<th>LC50 (inhalation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALIPHATIC PETROLEUM DISTILLATES (A.P.D., LACOLENE)</td>
<td>40-70</td>
<td>1268</td>
<td>64742-89-8</td>
<td>500 ppm (OSHA ZI, TWA)</td>
<td>300 ppm (ACGIH, TWA)</td>
<td>&gt; 8,000 mg/kg (oral, rat)</td>
<td>&gt; 4,000 mg/kg (dermal, rat)</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>10-30</td>
<td>1294</td>
<td>108-88-3</td>
<td>200 ppm (OSHA, TWA)</td>
<td>50 ppm (ACGIH, TWA, skin)</td>
<td>2.6 g/kg (oral, rat)</td>
<td>12.124 mg/kg (dermal, rabbit)</td>
</tr>
<tr>
<td>METHYL ETHYL KETONE</td>
<td>10-30</td>
<td>1193</td>
<td>78-93-3</td>
<td>200 ppm (OSHA ZI)</td>
<td>200 ppm (ACGIH, TWA)</td>
<td>670 mg/kg (oral, mouse)</td>
<td>3300-3500 mg/kg (oral, rat)</td>
</tr>
</tbody>
</table>

Reportable Hazardous Ingredients for SARA TITLE III  
Section 311, 312, 313: Toluene, Methyl Ethyl Ketone.  
Section: 311, 312: Aliphatic Petroleum Distillates  
*Toluene is listed under California’s Proposition 65.

3. HAZARDS IDENTIFICATION

Extremely flammable liquid and vapor - vapor may cause flash fire  
Harmful if inhaled or swallowed  
Causes skin and eye irritation  
High vapor concentrations may cause drowsiness and irritation of the eyes or respiratory tract

HMIS® Hazard Ratings: Health - 2, Flammability -3, Chemical Reactivity - 0  
HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation  
Move victim to fresh air and keep the person calm. Assist in breathing if necessary. Seek medical attention.

Skin Contact  
Wash with soap and water. If irritation develops, seek medical attention.

Eye Contact  
Flush with copious amounts of water for at least 15 minutes. If irritation develops, seek medical attention.

Ingestion  
Do not induce vomiting. Call physician or transport to an emergency facility.

General Advice:  
Use only in well ventilated areas. Remove contaminated clothing.
5. FIRE-FIGHTING MEASURES

Flash Point: -7.8 to -6.7°C /18-20ºF (TCC)  Auto Ignition Temperature: 232ºC

Flammable Limits (% by volume) 1.5%  Lower:  7.8%  Upper: N/A

Sensitivity to static discharge: Vapours sensitive.

Extinguishing Media
  Dry chemical, carbon dioxide, foam, water fog.

Hazardous Combustion Products:
  Carbon dioxide, carbon monoxide, unknown by-products of combustion otherwise no particular hazards known.

Protection of Firefighters:
  Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Special fire fighting procedures:
  Water may be used to keep fire-exposed containers cool until fire is out. Wear self-contained breathing apparatus with full-face piece operated in pressure-demand or other positive pressure mode when fighting fires.

Unusual fire and explosion hazard:
  Never use welding or cutting torch on or near cans (even empty) because resultant pressure could rupture. Empty cans should be incinerated.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions - Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

Clean Up - Eliminate all sources of ignition and soak up material with absorbent material (sand, sawdust) and place into closed containers for disposal. Promptly report significant spills to appropriate authorities. Consult local regulations.

7. HANDLING AND STORAGE

Handling:
  Protection against fire and explosion: Keep away from heat, sparks, and flame. Keep from contact with oxidizing materials. Use only with adequate ventilation. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Storage:
  Protect against physical damage. Store in a cool, dry place (10ºC – 32ºC). Keep away from excessive heat. Protect from freezing.

8. EXPOSURE CONTROLS/PERSOANL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): Use product in a well-ventilated area. If vapors or mists are generated, wear NIOSH/MSHA approved organic vapor/mist respirator or use a NIOSH approved air supplied respirator in the absence of proper environmental control.

VENTILATION: Use local exhaust. Do not use closed air circulating system. Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV (s). Explosion proof ventilation system is acceptable.

PROTECTIVE GLOVES: Chemical resistant gloves should be worn.

EYE PROTECTION: Chemical goggles or face shield should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
Odor: solvent odour
Specific Gravity: 0.76
Vapor Density: Greater than 1
V.O.C.: 761.7 g/L
Percent V.O.C.: 100%
SOLUBILITY IN WATER: negligible
Flash Point: -7.8°C to -6.7°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to Avoid: Excessive heat.
Materials to Avoid: Strong oxidizers.
Hazardous Polymerization: [] may occur [X] will not occur

11. TOXICOLOGICAL INFORMATION

Toluene:
ACUTE TOXICITY:
2.6 g/kg (oral, rat). 12,124 mg/kg (dermal, rabbit). 8,000 ppm, 4 hr (rat). 8,000 mg/l, 4 hr (rat). 12,200 mg/l, 2 hr (rat).
Eye irritation (human): 400 ppm Primary dermal irritation (rabbits): mild to moderate

CHRONIC EFFECTS AND CARCINOGENICITY:
Carcinogenicity: OSHA: NO IARC: NO NTP: NO ACGIH: NO
Breathing large amounts of toluene for short periods of time adversely effect the human nervous system, the kidneys, liver, and the heart. Repeatedly breathing large amounts of toluene as when "sniffing glue" or paint can cause permanent brain damage. Human exposure studies and animal studies suggest that exposure to large amounts of toluene during pregnancy can adversely effect the developing fetus.
Mutagenicity: negative

Aliphatic Petroleum Distillate:
> 8,000 mg/kg (oral, rat). > 4,000 mg/kg (dermal, rat). 3,400 ppm, 4 hr (rat).
May cause damage to the following organs: peripheral nervous system, skin, central nervous system (CNS). Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (irritant). May cause adverse reproductive effects based on animal data. May be tumorigenic based on animal data. May affect genetic material. Passes through the placental barrier in animal.

Acute Potential Health Effects: Skin: May cause mild skin irritation. It can be absorbed through the skin in harmful amounts. Eyes: May cause mild eye irritation. Inhalation: May be harmful if inhaled. Inhalation of vapors may cause respiratory tract irritation. Overexposure may affect, brain, spinal cord, behavior/central and peripheral nervous systems (lightheadness, dizziness, hallucinations, paralysis, blurred vision, memory loss, headache, euphoria, general anesthetic, muscle weakness, numbness of the extremeties, asphyxia, unconsciousness and possible death), metabolism, respiration, blood, cardiovascular system, gastrointestinal system (nausea) Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation with abdominal pain and nausea. May also affect the liver, blood, brain, peripheral and central nervous systems. Symptoms of over exposure by ingestion are similar to that of overexposure by inhalation.

MEK:
670 mg/kg (oral, mouse). 2300-3500 mg/kg (oral, rat). > 8,000 mg/kg (dermal, rabbit). > 5 g/kg (dermal, rabbit). 11,700 mg/l (rat). 11,000 mg/l (mouse). 11,700 mg/l 4 hr (rat).
May cause damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, eyes, central nervous system (CNS). Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation (lung irritant). Acute Potential Health Effects: Skin: Causes skin irritation. May be absorbed through the skin. Eyes: Causes eye irritation. Inhalation: Inhalation of high concentrations may cause central nervous effects characterized by headache, dizziness, unconsciousness, and coma. Causes respiratory tract irritation and affects the sense organs. May affect the liver and urinary system. Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting and diarrhea. May affect the liver. Chronic Potential Health Effects: Chronic inhalation may cause effects similar to those of acute inhalation. Prolonged or repeated skin contact may cause defatting and dermatitis.
12. ECOLOGICAL INFORMATION

Environmental Mobility:
No data is available on the product itself. Product should not be allowed to enter drains nor sources of water or areas where it can affect ground or surface waters.

Bioaccumulation Potential:
No data is available on the product itself.

Persistence:
No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Disposal
Incinerate or bury dried material in landfill in accordance with federal, state and local regulations.
For liquid material dispose of in licensed facility in accordance with federal, state, and local regulations (non-hazardous material).

Wastes or Residues
Same as above.

Package Disposal:
Dispose of in licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. TRANSPORT INFORMATION

Road:
D.O.T. PROPER SHIPPING NAME (49CFR172.101-102): Compound, cleaning liquid
D.O.T. HAZARD CLASSIFICATION (49CFR172.101-102):
PRIMARY: Class: 3  SECONDARY: Packing Group: II


BILL OF LADING DESCRIPTION: UN 1993, compound cleaning liquid, Cl 3, PG II

UN/NA CODE: 1993

15. REGULATORY INFORMATION

Federal Regulations:

SARA 311/312 Classification:
immediate (acute) health hazard
delayed (chronic) health hazard
fire hazard
SARA 313 - Supplier Notification
This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372:
Aliphatic Petroleum Distillates(APD), Toluene, MEK

SARA 302 Extremely Hazardous Substances: None.
TSCA: All components are on the Toxic Substances Control Act (TSCA) inventory.

Canada
WHMIS (Canada): controlled.
WHMIS (Canada) Hazard Classification: B/2, D/2/A, D/2/B
16. OTHER INFORMATION

Hazardous Material Information System (U.S.A.)
Health: 2
Flammability: 3
Physical hazards: 0
PPE: B

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.
The customer is responsible for determining the PPE code for this material.

Prepared by Roberts Capitol Product Safety & Regulatory Compliance Group, (706) 277-5294.
Date of issue: 10/1/2015

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