SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PREMIUM LACQUER THINNER
SYNONYMS: Not available
PRODUCT CODE: 6770
PRODUCT USE: Lacquer thinner.
If these products are used in combination with other products, refer to the Material Safety Data Sheet for those products.

24-HOUR EMERGENCY PHONE NUMBER
This number is for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

MEDICAL AND TRANSPORTATION (SPILL): 1-800-468-1760

SUPPLIER: Safety-Kleen Systems, Inc.
5360 Legacy Drive
Building 2, Suite 100
Plano, Texas 75024
USA
1-800-669-5740
www.Safety-Kleen.com

TECHNICAL INFORMATION: 1-800-669-5740 Press 1 then 1, then Extension 7500

MSDS FORM NUMBER: 82688
ISSUE: December 4, 2008

ORIGINAL ISSUE: July 11, 1996
SUPERSEDES: December 29, 2005

PREPARED BY: Product MSDS Coordinator
APPROVED BY: MSDS Task Force
SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE
Clear, colorless liquid, solvent odor.

DANGER!

PHYSICAL HAZARDS
Extremely flammable liquid and vapor.
Vapor may cause flash fire.

HEALTH HAZARDS
May be harmful or fatal if inhaled or swallowed.
May be harmful if absorbed through skin.
May be fatal if swallowed.
Swallowing methanol may cause blindness and death.
May irritate the respiratory tract (nose, throat, and lungs), and skin.
Contains material which can cause eye, liver, kidney and central nervous system damage.
Contains material which can cause mutagenic and teratogenic effects.

ENVIRONMENTAL HAZARDS
May be harmful to fish.

OSHA Regulated Chemicals
No information is available.
POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES: May cause irritation. High concentrations of vapor or mist may cause blurred vision or other eye damage.

SKIN: May cause irritation, drying, cracking, redness, itching, and/or swelling (dermatitis). Toluene and methanol may be absorbed through the skin and cause harm as noted under INHALATION (BREATHING).

INGESTION (SWALLOWING): This product may be harmful or fatal if swallowed. Swallowing methanol may cause blindness. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under INHALATION (BREATHING). Aspiration hazard: breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing cardiovascular, liver, kidney, respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated inhalation may cause toxic effects as noted under INHALATION (BREATHING). Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Prolonged or repeated inhalation or ingestion may cause toxic eye, liver, kidney, or central nervous system damage. Prolonged or repeated inhalation or ingestion exposure may have reproductive toxicity, mutagenicity, and/or teratogenicity effects.

CANCER INFORMATION: No known carcinogenicity. For more information, see SECTION 11: CARCINOGENICITY.

POTENTIAL ENVIRONMENTAL EFFECTS
May be harmful to fish. Also see SECTION 12: ECOLOGICAL INFORMATION.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Synonym</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>Methylbenzene</td>
<td>41-86*</td>
</tr>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>Dimethylketone; 2-Propanone</td>
<td>1-23*</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methyl alcohol</td>
<td>Methanol</td>
<td>2-47*</td>
</tr>
</tbody>
</table>

*Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

SECTION 4: FIRST AID MEASURES

INHALATION (BREATHING): Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

EYES: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

SKIN: Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. Wash contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated.

INGESTION (SWALLOWING): Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

SECTION 5: FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion materials may be toxic. Burning may produce oxides of carbon and unidentified organic compounds.
CONDITIONS OF FLAMMABILITY: Heat, sparks, or flame.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

EXTINGUISHING MEDIA: Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

NFPA 704 HAZARD IDENTIFICATION: This information is intended solely for the use by individuals trained in this system.

FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray.

FIRE AND EXPLOSION HAZARDS: Vapor explosion hazard indoors, outdoors, or in sewers. Vapor may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire or explosion hazard. Heated containers may rupture, explode, or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or absorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal. There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

SECTION 7: HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See SECTION 14: TRANSPORTATION INFORMATION for Packing Group information.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Component Exposure Limits

**Toluene (108-88-3)**

- ACGIH: 20 ppm TWA
- OSHA: 100 ppm TWA; 375 mg/m3 TWA
- NIOSH: 100 ppm TWA; 375 mg/m3 TWA

**Acetone (67-64-1)**

- ACGIH: 500 ppm TWA
- OSHA: 750 ppm TWA; 1800 mg/m3 TWA

**Methyl alcohol (67-56-1)**

- ACGIH: 200 ppm TWA
- OSHA: 200 ppm TWA; 260 mg/m3 TWA

ENGINEERING CONTROLS:

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION:**

Use NIOSH-certified, air-supplied respirators (self-contained breathing apparatus or air-line) respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limits. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.
### EYE PROTECTION:
Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

### SKIN PROTECTION:
- Wear chemical resistant (impervious) gloves.
- To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

### PERSONAL HYGIENE:
- Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products.
- Clean affected clothing, shoes, and protective equipment before reuse.
- Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

### OTHER PROTECTIVE EQUIPMENT:
Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHYSICAL STATE, APPEARANCE, AND ODOR:</strong></td>
<td>Clear, colorless liquid, solvent odor.</td>
</tr>
<tr>
<td><strong>ODOR THRESHOLD:</strong></td>
<td>10 ppm (minimum)</td>
</tr>
<tr>
<td><strong>MOLECULAR WEIGHT:</strong></td>
<td>92.1 (toluene), 58.1 (acetone), 32.0 (methanol)</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY:</strong></td>
<td>0.847 (water = 1)</td>
</tr>
<tr>
<td><strong>DENSITY:</strong></td>
<td>7.1 LB/US gal (847 g/l)</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY:</strong></td>
<td>3.14 (air = 1)</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE:</strong></td>
<td>68 mm Hg at 68ºF (20ºC) (approximately) VOC vapor pressure &lt; 45 mm Hg at 68ºF (20ºC)</td>
</tr>
<tr>
<td><strong>BOILING POINT:</strong></td>
<td>133 to 232ºF (56 to 111ºC)</td>
</tr>
<tr>
<td><strong>FREEZING/MELTING POINT:</strong></td>
<td>-137ºF (-94ºC) (maximum)</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
EVAPORATION RATE: 6 (butyl acetate = 1) (maximum)

SOLUBILITY IN WATER: Not available

FLASH POINT: -4°F (20°C)

FLAMMABLE LIMITS IN AIR: LOWER: 1.2 VOL%  UPPER: 36.0 VOL%

AUTOIGNITION TEMPERATURE: 725°F (385°C) (minimum)

% VOLATILE: Not available

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** Stable under normal temperatures and pressures.

**CONDITIONS TO AVOID:** Avoid heat, sparks, or flame.

**INCOMPATIBILITY:** Avoid acids, alkalies, oxidizing agents, reactive halogens, or reactive metals.

**REACTIVITY:** Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS**.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**TOXICITY DATA:** Component Analysis - LD50/LC50

**Toluene (108-88-3)**
- Inhalation LC50 Rat: 12.5 mg/L/4H
- Inhalation LC50 Rat: >26700 ppm/1H
- Oral LD50 Rat: 636 mg/kg
- Dermal LD50 Rabbit: 8390 mg/kg
- Dermal LD50 Rat: 12124 mg/kg

**Acetone (67-64-1)**
- Oral LD50 Rat: 5800 mg/kg
Methyl alcohol (67-56-1)
Inhalation LC50 Rat: 83.2 mg/L/4H
Inhalation LC50 Rat:64000 ppm/4H
Oral LD50 Rat:5628 mg/kg
Dermal LD50 Rabbit:15800 mg/kg

ACUTE EFFECTS: High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs), cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death. May cause eye irritation. High concentrations of vapor or mist may cause blurred vision or other eye damage. May cause skin irritation, drying, cracking, redness, itching, and/or swelling (dermatitis). Toluene and methanol may be absorbed through the skin and cause harm as noted for inhalation. May be harmful or fatal if swallowed. Swallowing methanol may cause blindness. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under inhalation. Aspiration hazard: breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

REPEATED DOSE EFFECTS: Prolonged or repeated inhalation may cause toxic effects. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Prolonged or repeated inhalation or ingestion may cause toxic eye, liver, kidney, or central nervous system damage. Prolonged or repeated inhalation or ingestion exposure may have reproductive toxicity, mutagenicity, and/or teratogenicity effects.

Methanol has demonstrated human effects of mutagenicity. Acetone has demonstrated experimental effects of mutagenicity.

Toluene has demonstrated human effects of teratogenicity.

Toluene and methanol have demonstrated animal effects of reproductive toxicity.

Based on best current information, there is no known human sensitization associated with this product.
CARCINOGENICITY: Based on best current information for the components in Section 2, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

TARGET ORGAN EFFECTS: Contains material which can cause eye, liver, kidney, reproductive and central nervous system damage.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: May be harmful to fish.

Component Analysis - Ecotoxicity - Aquatic Toxicity

**Toluene (108-88-3)**

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Results</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>25 mg/L</td>
<td>1 day old; flow-through</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>24.0 mg/L</td>
<td>flow-through</td>
</tr>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>24.0 mg/L</td>
<td>static</td>
</tr>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>13 mg/L</td>
<td>static</td>
</tr>
<tr>
<td>96 Hr EC50 Selenastrum capricornutum</td>
<td>&gt;433 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

**Acetone (67-64-1)**

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Results</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>6210-8120 mg/L</td>
<td>static</td>
</tr>
</tbody>
</table>

**Methyl alcohol (67-56-1)**

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Results</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>28100 mg/L</td>
<td>flow-through</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>13200 mg/L</td>
<td></td>
</tr>
</tbody>
</table>
PERSISTENCE/DEGRADABILITY: No information available for the product.

BIOACCUMULATION/ACCUMULATION: No information available for the product.

MOBILITY IN ENVIRONMENTAL MEDIA: No information available for the product.

OTHER ADVERSE EFFECTS: No information available for the product.

OCTANOL/WATER PARTITION COEFFICIENT: Log Pow = 2.7

VOLATILE ORGANIC COMPOUNDS: 70 to 88 WT%; 4.9 to 6.2 LB/US gal; 593 to 745 g/l As per 40 CFR Part 51.100(s).

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

USEPA WASTE CODE(S): Although this product is not defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261), recognize that in appropriate dust/air ratio, dust cloud in air may have explosion potential. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product. Although this product is not defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261), recognize that in appropriate dust/air ratio, dust cloud in air may have explosion potential.
SECTION 14: TRANSPORT INFORMATION

DOT:  Shipping Name: Paint related material  
UN/NA #: UN1263  Hazard Class: 3  Packing Group: II

TDG:  Shipping Name: Paint Related Material  
UN/NA #: UN1263  Hazard Class: 3  Packing Group: II

EMERGENCY RESPONSE GUIDE NUMBER: 128  
Reference North American Emergency Response Guidebook

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

OSHA  OSHA Regulated Chemicals  
No information is available.

SARA SECTIONS 302 AND 304: Based on the ingredients listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312:  This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):  
Immediate (Acute) Health Hazard  
Delayed (Chronic) Health Hazard  
Fire Hazard

SARA SECTION 313:  This product does contain a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.  
Component Analysis  
Toluene (108-88-3)  
1.0 % de minimis concentration  
Methyl alcohol (67-56-1)  
1.0 % de minimis concentration
CERCLA: Based on the ingredients listed in SECTION 3, this product contains the following "hazardous substances" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

**Component Analysis**
- **Toluene (108-88-3)**
  - 1000 lb final RQ; 454 kg final RQ
- **Acetone (67-64-1)**
  - 5000 lb final RQ; 2270 kg final RQ
- **Methyl alcohol (67-56-1)**
  - 5000 lb final RQ; 2270 kg final RQ

TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product is not for sale or use in the State of California.

CANADIAN REGULATIONS
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

SECTION 16. OTHER INFORMATION

**REVISION INFORMATION:** Regulatory update. Revised format (Sections 2 and 3 switched). Section 1 (Address changed, Revision dates), Section 5 (Fire fields), Section 8 (Added exposure limits), Section 11 (Toxicology fields), Section 12 (Component Ecotoxicity), Section 16 (Revision).

**LABEL/OTHER INFORMATION:** Not available.

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.