Material Safety Data Sheet

Material Name: SAFETY-KLEEN PROFESSIONAL ALL PURPOSE PENETRANT AND LUBRICANT

ID: 820087

Product Code: 32045, 32145
Product Use: Multi purpose penetrant and lubricant. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.
Synonyms: None.
Safety-Kleen Systems, Inc.
5360 Legacy Drive
Building 2, Suite 100
Plano, TX 75024
Phone: 1-800-669-5740
Emergency # 1-800-468-1760
www.safety-kleen.com

Issue Date
6/1/11
Supersedes Issue Date
New MSDS
Original Issue Date
New MSDS.

PREPARED BY: Product MSDS Coordinator
APPROVED BY: MSDS Task Force

********* Section 2 - Hazards Identification *********

Emergency Overview
Appearance
Liquid, mild odor

Signal Word
DANGER!

Physical Hazards
Extremely Flammable
Do not puncture - contents under pressure

Health Hazards
May irritate the respiratory tract (nose, throat, and lungs), and skin. May be severely irritating to the eyes. May be harmful if swallowed. May be harmful if inhaled.

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. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal

Eyes
May be severely irritating to the eyes.

Skin
May cause irritation leading to dermatitis or blistering.

Ingestion (Swallowing)
May be harmful if swallowed. 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. Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal.

Medical Conditions Aggravated by Exposure
Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.
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Chronic
Prolonged or repeated inhalation may cause toxic effects as noted under INHALATION (BREATHING).
Prolonged or repeated skin contact can cause moderate irritation, defatting, and dermatitis.

Cancer Information
No known carcinogenicity. For more information, see SECTION 11: CARCINOGENICITY.
Also see SECTION 15: CALIFORNIA.

***** Section 3 - Composition / Information on Ingredients *****

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Vegetable oil</td>
<td>50-75</td>
</tr>
<tr>
<td>75-28-5</td>
<td>Isobutane</td>
<td>25-50</td>
</tr>
</tbody>
</table>

Component Related Regulatory Information
This product may be regulated, have exposure limits or other information identified as the following: Vegetable oil, Vegetable oils, Butane, branched and linear (68513-65-5).

***** 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. Wash contaminated clothing before reuse. Consider discarding contaminated shoes.

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.

Notes to Physicians
Treat symptomatically and supportively. Increased sensitivity of the heart to Adrenaline (epinephrine) may be caused by overexposure to product. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. 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.

Conditions of Flammability
Heat, sparks, or flame.

Extinguishing Media
Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.

Protective Equipment For Firefighting
Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.
Firefighters should avoid inhaling any combustion products.

Fire Fighting Equipment/Instructions
Keep storage containers cool with water spray.

NFPA Ratings: Health: 1 Fire: 4 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
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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. Products are 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/PERSOAL 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 sorb 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. There may be specific regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

***** Section 7 - Handling and Storage *****

Handling Procedures
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 when 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 store above 120°F. Do not store in direct sunlight. 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; containers may explode and cause injury or death. 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 *****

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.

Component Exposure Limits
Vegetable oil (Mixture)

OSH A Final: 5 mg/m3 TWA (mist, respirable fraction); 15 mg/m3 TWA (mist, total, related to Vegetable oil)

OSH A Vacated: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction, related to Vegetable oil)

NIOSH: 10 mg/m3 TWA (total mist); 5 mg/m3 TWA (respirable mist, related to Vegetable oil)

Isobutane (75-28-5)

ACGIH: 1000 ppm TWA

NIOSH: 800 ppm TWA; 1900 mg/m3 TWA

Personal Protective Equipment: Respiratory
Use NIOSH-certified, air-supplier respirators (self-contained breathing apparatus or air-line) where concentrations of methanol exceed applicable exposure limits. Use NIOSH-certified, full-face respirators with organic vapor cartridges respiratory protective equipment when concentrations 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.

Personal Protective Equipment: Eyes/Face
Wearing chemical goggles is recommended. Contact lenses may be worn with eye protection.

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**Personal Protective Equipment: Skin**
Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex), polyvinyl chloride (PVC), neoprene or equivalent gloves is not recommended.
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 Protective Equipment: 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 Personal 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.

**Section 9 - Physical & Chemical Properties**

- **Appearance:** Amber liquid
- **Physical State:** Liquid, under pressure
- **Boiling Point:** 11°F
- **Solubility (H2O):** Slight
- **Density:** Not available
- **Evaporation Rate:** Faster than butyl acetate
- **Odor Threshold:** Not available.
  - **LFL:** 1.8%
  - **UFL:** 8.4%
- **Vapor Pressure:** Not available
- **Flammability Class:** Flammable
- **Odor:** Mild
- **pH:** Not applicable
- **Melting Point:** Not available
- **Specific Gravity:** 0.7335 (water = 1)
- **Octanol/H2O Coeff.:** Not available
- **Molecular Weight:** Not available
- **Auto Ignition:** Not available
- **Flash Point:** -117°F
- **Vapor Density:** Not available
- **Freezing Point:** Not available

**Section 10 - Chemical Stability & Reactivity Information**

**Stability**
Stable under normal temperatures and pressures. Avoid heat, sparks, or flame.

**Incompatibility**
Avoid acids, alkalies, oxidizing agents, reducing 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.

**Conditions To Avoid**
Keep away from heat, ignition sources and incompatible materials.

**Section 11 - Toxicological Information**

**Component Analysis - LD50/LC50**
- Isobutane (75-28-5)
  - Inhalation LC50 Rat 658 mg/L 4 h

**Acute Effects**
May irritate the respiratory tract (nose, throat, and lungs), and skin. May be severely irritating to the eyes. May be harmful if swallowed, absorbed through skin or if inhaled. 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. Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal. May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

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Repeated Dose Effects
Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Target Organ Effects
Prolonged or repeated skin contact can cause moderate irritation, defatting, and dermatitis.

Sensitization
Based on current information, there is no known human sensitization associated with this product.

Mutagenicity
No information available for this product.

Teratogenicity
No information available for this product.

Toxicologically Synergistic Products
No information available for this product.

****** Section 12 - Ecological Information ******

Ecotoxicity
Generally not expected to cause adverse effects.

Component Analysis - Ecotoxicity - Aquatic Toxicity
Not available.

Persistence/Degradability
No information available for this product.

Bioaccumulation/Accumulation
No information available for this product.

Mobility in Environmental Media
No information available for this product.

Other Adverse Effects
No information available for this product.

****** Section 13 - Disposal Considerations ******

Disposal Instructions
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.

US EPA Waste Number & Descriptions
D001. 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.

****** Section 14 - Transportation Information ******

Emergency Response Guide Number

DOT
Shipping Name: Aerosols
UN/NA #: UN1950  Hazard Class: 2.1
Required Label(s): 2.1

TDG
Shipping Name: Aerosols
UN/NA #: UN1950  Hazard Class: 2.1
Required Label(s): 2.1

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***** Section 15 - Regulatory Information *****

Volatile Organic Compounds (As Regulated)
39.9 WT%; 2.43 LB/US gal; 292 g/L; As per 40 CFR Part 51.100(s)
Product does not contain photochemically reactive solvent.

SARA Sections 302 & 304
Based on the ingredients listed in Section 2, 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 & 312
Based on the ingredients listed in Section 2, this product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of Section 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):
- Immediate (Acute) Health Hazard
- Fire Hazard
- Pressurized Gas Hazard

SARA Section 313
Based on the ingredients listed in Section 2, this product does not contain any "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.

CERCLA
Based on the ingredients listed in Section 2, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

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.

Component Analysis

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetable oil</td>
<td>Mixture</td>
<td>No</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>Yes</td>
</tr>
</tbody>
</table>

California
This product does not contain detectable amounts of any chemical known to the State of California to cause cancer.

Component Analysis - State
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetable oil (*related to: Vegetable oil)</td>
<td>Mixture</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

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.

Component Analysis

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetable oil</td>
<td>Mixture</td>
<td>No</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>DSL</td>
</tr>
</tbody>
</table>

Canadian WHMIS Information
Class B5 - Flammable Aerosols Class D2B - Irritating to eyes and skin.

Component Analysis - WHMIS IDL
No components are listed in the WHMIS IDL.
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 ******

Label/Other Information
Not available.

Revision Information
New MSDS.

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.

End of Sheet 820087