Material Safety Data Sheet

Material Name: GENERAL PURPOSE CLEANER  ID: 82321

*** Section 1 - Chemical Product and Company Identification ***

Product Code: 666, 10666, 10667, 11666, 50666, 51666, 52666
Product Use: For cleaning grease, dirt, and grime.
If this product is used in combination with other products, refer to the Material Safety Data Sheets for those products.

Synonyms: Not available.
Safety-Kleen Systems, Inc. Phone: 1-800-669-5740
5360 Legacy Drive
Building 2, Suite 100
Plano, TX 75024 Emergency # 1-800-468-1760

Issue Date November 28, 2011
Supersedes Issue Date November 18, 2008
Original Issue Date November 12, 1985

*** Section 2 - Hazardous Identification ***

EMERGENCY OVERVIEW
Appearance
Granular, free-flowing white or yellow powder, pine or citrus odor.

Signal Word
DANGER!

Physical Hazards
Corrosive.

Health Hazards
May be harmful if inhaled. May be fatal if swallowed. May burn the respiratory tract (nose, throat, and lungs), eyes, skin, and gastrointestinal tract.
Contains material which can cause eye and skin damage.

POTENTIAL HEALTH EFFECTS
Inhalation (Breathing)
May be harmful if inhaled. Powder may cause irritation with sore throat, coughing, shortness of breath, and/or burns to mucous membrane of the respiratory tract.

Eyes
May cause irritation, redness, pain, blurred vision, burns, and/or corneal damage.

Skin
May cause irritation, redness, pain, blistering, and/or burns. Not likely to be absorbed through the skin in harmful amounts.

Ingestion (Swallowing)
May be fatal if swallowed. May cause painful swallowing, nausea, vomiting, stomach pain, and/or gastrointestinal burns. 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 kidney, respiratory tract (nose, throat, and lungs), 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 holes in nose, mouth sores, mucous membrane burns, and/or 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); burns, and/or damage. Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis); irritation, pain, blistering, burns, and/or damage. Prolonged or repeated exposure may cause reproductive toxicity. Repeated ingestion may cause toxic effects as noted under INGESTION (SWALLOWING) and kidney damage.

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

Environmental Hazards
High pH (alkalinity) of product dissolved in water is harmful to aquatic life.; High pH (alkalinity) of product dissolved in water is harmful to aquatic life. Also see SECTION 12: ECOLOGICAL INFORMATION.

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

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>6834-92-0</td>
<td>Silicic acid, disodium salt</td>
<td>25-75*</td>
</tr>
<tr>
<td>497-19-8</td>
<td>Carbonic acid disodium salt</td>
<td>20-40</td>
</tr>
<tr>
<td>68551-13-3</td>
<td>Alcohols, C12-15, ethoxylated propoxylated</td>
<td>0-5*</td>
</tr>
<tr>
<td>127087-87-0</td>
<td>Poly(oxy-1,2-ethanediyl), α-(4-nonylphenyl)-ω-hydroxy-,branched</td>
<td>0-5*</td>
</tr>
<tr>
<td>10101-89-0</td>
<td>Phosphoric acid, trisodium salt, dodecahydrate</td>
<td>0-5*</td>
</tr>
</tbody>
</table>

Component Related Regulatory Information
This product may be regulated, have exposure limits or other information identified as the following: Sodium hydroxide (1310-73-2).

*** 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 immediately.

Skin
Remove affected clothing and shoes. Brush dry material off of skin and follow by thoroughly washing with soap and water. For contact with liquid, wash skin thoroughly with soap and water. Get medical attention immediately. 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. Avoid gastric lavage, consider esophagoscopy. 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. Product itself does not burn, but may decompose upon heating to produce sodium oxides, phosphorus oxides, and carbon monoxide.

Conditions of Flammability
Product will not burn.

Extinguishing Media
Carbon dioxide, alcohol-resistant foam, dry chemical, or water spray.
Protective Equipment For Firefighting
   Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing
   apparatus, protective clothing and face mask.

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

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Fire and Explosion Hazards
   Heated containers may rupture. “Empty” containers may retain residue and can be dangerous. Product is not
   sensitive to mechanical impact or static discharge.

*** Section 6 - Accidental Release Measures ***
Slippery when wet. Do not touch or walk through spilled product. Stop spill or 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. Avoid breathing powder. Contain spill away from surface water and sewers. Shovel with a clean
 tool into a sealable container for disposal.

*** Section 7 - Handling and Storage ***
Handling Procedures
   When dissolving, add water cautiously with stirring. Slippery when wet. Use clean tools. Do not breathe powder.
   Avoid contact with eyes, skin, clothing, and shoes.

Shipping and Storing
   Keep container tightly closed when not in use and during transport. 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
   Silicic acid, disodium salt (6834-92-0)
   ACGIH: 2 mg/m3 Ceiling (related to Sodium hydroxide)
   OSHA Final: 2 mg/m3 TWA (related to Sodium hydroxide)
   OSHA Vacated: 2 mg/m3 Ceiling (related to Sodium hydroxide)
   NIOSH: 2 mg/m3 Ceiling (related to Sodium hydroxide)

   Carbonic acid disodium salt (497-19-8)
   ACGIH: 2 mg/m3 Ceiling (related to Sodium hydroxide)
   OSHA Final: 2 mg/m3 TWA (related to Sodium hydroxide)
   OSHA Vacated: 2 mg/m3 Ceiling (related to Sodium hydroxide)
   NIOSH: 2 mg/m3 Ceiling (related to Sodium hydroxide)

Engineering Controls
   Provide general ventilation needed to maintain concentration of powder below applicable exposure limits. When
   air-borne concentration of powder exceeds applicable exposure limits, use process enclosures or other
   engineering controls to control airborne levels below applicable exposure limits.

Personal Protective Equipment: Respiratory
   Use NIOSH-certified, air-purifying respirators with N-, P-, or R- series particulate filter when concentration of
   powder or mist exceeds applicable exposure limits. Protection provided by air-purifying respirators is limited.
   Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General

Personal Protective Equipment: Eyes/Face
   Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

Personal Protective Equipment: Skin
   Where skin contact is likely, wear chemical impervious protective gloves; use of polyvinyl alcohol (PVA) 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, coveralls, long sleeve shirts, 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Odor</td>
<td>Granular, free-flowing white or yellow powder, pine or citrus odor.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Complete</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>LFL</td>
<td>Not applicable</td>
</tr>
<tr>
<td>UFL</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>12.5 (approximately) in a 1% solution in water.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Octanol/H2O Coeff.</td>
<td>No information available.</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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

**Stability**

Stable under normal temperatures and pressures.

**Incompatibility**

Avoid acids, oxidizing agents, reducing agents, reactive halogens (such as fluorine), or reactive metals (such as aluminum and zinc).

**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**

Avoid heat, sparks, or flame.

### **Section 11 - Toxicological Information**

**Component Analysis - LD50/LC50**

- *Silicic acid, disodium salt (6834-92-0)*
  - Oral LD50 Rat 600 mg/kg
- *Carbonic acid disodium salt (497-19-8)*
  - Oral LD50 Rat 4090 mg/kg; Dermal LD50 Mouse 2210 mg/kg
- *Phosphoric acid, trisodium salt, dodecahydrate (10101-89-0)*
  - Oral LD50 Rat 7400 mg/kg

**Acute Effects**

May burn the respiratory tract (nose, throat, and lungs), eyes, skin, and gastrointestinal tract. Risk of serious damage to eyes. May be harmful if inhaled. Powder may cause irritation with sore throat, coughing, shortness of breath, and/or burns to mucous membrane of the respiratory tract. May be fatal if swallowed. May cause painful swallowing, nausea, vomiting, stomach pain, and/or gastrointestinal burns. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

**Repeated Dose Effects**

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

Based on best current information, there is no known mutagenicity associated with this product.
Sodium metasilicate and sodium carbonate have demonstrated animal effects of reproductive toxicity. Based on best current information, the other components listed in SECTION 2 are not reproductive toxicants. Also see SECTION 15: CALIFORNIA.

Based on best current information, there is no known teratogenicity associated with this product.

Carcinogenicity

Component Carcinogenicity

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

Target Organ Effects

Prolonged or repeated inhalation may cause holes in nose, mouth sores and mucous membrane burns. Repeated ingestion may cause kidney damage.

Toxicologically Synergistic Products

Based on best current information, there are no known toxicologically synergistic products associated with this product.

*** Section 12 - Ecological Information ***

Ecotoxicity

High pH (alkalinity) of product dissolved in water is harmful to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Silicic acid, disodium salt (6834-92-0)</th>
<th>Concentration/Conditions/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Brachydanio rerio</td>
<td>210 mg/L [semi-static]</td>
</tr>
<tr>
<td>96 Hr LC50 Brachydanio rerio</td>
<td>210 mg/L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carbonic acid disodium salt (497-19-8)</th>
<th>Concentration/Conditions/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>300 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>310 - 1220 mg/L [static]</td>
</tr>
<tr>
<td>120 Hr EC50 Nitzschia</td>
<td>242 mg/L</td>
</tr>
</tbody>
</table>

Persistence/Degradability

Not available.

Bioaccumulation/Accumulation

No information available.

Mobility in Environmental Media

No information available.

Other Adverse Effects

No information available.

*** 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

If discarded, this product is considered a RCRA corrosive waste, D002. 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(s) applicable to the disposal of this product.

*** Section 14 - Transportation Information ***

Emergency Response Guide Number


DOT

Shipping Name: Corrosive solids, n.o.s. (sodium metasilicate)
UN/NA #: 1759  Hazard Class: 8  Packing Group: II

TDG

Shipping Name: Corrosive Solids, N.O.S.
UN/NA #: 1759  Hazard Class: 8(9.2)  Packing Group: II

Additional Info.: These dangerous goods are described in accordance with the IMDG code.
**Section 15 - Regulatory Information**

**Volatile Organic Compounds (As Regulated)**
0-8 WT%; As per 40 CFR Part 51.100(s)

**SARA Sections 311/312**
This product poses the following health hazard(s) 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

**SARA 302/304**
**Component Analysis**
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 Section 313**
This product does not contain "toxic" chemical(s) 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**
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**
**Component Analysis**
This product contains the following "hazardous substance" 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):

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Reportable Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicic acid, disodium salt</td>
<td>6834-92-0</td>
<td>1000 lb final RQ; 454 kg final RQ (related to Sodium hydroxide)</td>
</tr>
<tr>
<td>Carbonic acid disodium salt</td>
<td>497-19-8</td>
<td>1000 lb final RQ; 454 kg final RQ (related to Sodium hydroxide)</td>
</tr>
<tr>
<td>Phosphoric acid, trisodium salt, dodecahydrate</td>
<td>10101-89-0</td>
<td>5000 lb final RQ; 2270 kg final RQ</td>
</tr>
</tbody>
</table>

**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>Silicic acid, disodium salt</td>
<td>6834-92-0</td>
<td>Yes</td>
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<td>10101-89-0</td>
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<td>Poly(oxy-1,2-ethanediyl), α-(4-nonylphenyl)-ω-hydroxy-,branched</td>
<td>127087-87-0</td>
<td>Yes</td>
</tr>
<tr>
<td>Alcohols, C12-15, ethoxylated propoxylated</td>
<td>68551-13-3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**California**
This product may contain detectable amounts of acetaldehyde CAS 75-07-0, 1,4-dioxane CAS 123-91-1, ethylene dioxide CAS 75-21-8, formaldehyde CAS 50-00-0, and propylene oxide CAS 75-56-9. WARNING: These chemicals are known to the State of California to cause cancer.

This product may contain a detectable amount of ethylene oxide CAS 75-21-8. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.
**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>Silicic acid, disodium salt (related to: Sodium hydroxide)</td>
<td>6834-92-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbonic acid disodium salt (related to: Sodium hydroxide)</td>
<td>497-19-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Phosphoric acid, trisodium salt, dodecahydrate</td>
<td>10101-89-0</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</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>Silicic acid, disodium salt</td>
<td>6834-92-0</td>
<td>DSL</td>
</tr>
<tr>
<td>Carbonic acid disodium salt</td>
<td>497-19-8</td>
<td>DSL</td>
</tr>
<tr>
<td>Phosphoric acid, trisodium salt, dodecahydrate</td>
<td>10101-89-0</td>
<td>No</td>
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<td>Poly(oxy-1,2-ethanediyl), α-(4-nonylphenyl)-ω-hydroxy-,branched</td>
<td>127087-87-0</td>
<td>DSL</td>
</tr>
<tr>
<td>Alcohols, C12-15, ethoxylated propoxylated</td>
<td>68551-13-3</td>
<td>DSL</td>
</tr>
</tbody>
</table>

**Canadian WHMIS Information**

Class D2A, E

**Component Analysis - WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

- Silicic acid, disodium salt (6834-92-0) 1 %
- Carbonic acid disodium salt (497-19-8) 1 %

**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**

No information available.

**Revision Information**

Regulatory update, update product name and composition. This MSDS has been revised in the following sections: Section 1 (Dates), Section 2 (Composition updated), Section 5 (Fire Fields), Section 8 (Exposure Limits added), Section 11 (Toxicology fields updated), Section 12 (Ecotoxicity and VOC Information, fields updated), Section 16 (Revision Information).

**Disclaimer**

User assumes all risks incident to the use of this product. 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 expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplier to the user.