



## Material Safety Data Sheet

Material Name: SAFETY-KLEEN GENERAL PURPOSE CLEANER

ID: 82321

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

**Product Code:** 11666, 10667

**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.  
2600 North Central Expressway  
Suite 400  
Richardson, TX 75080

Phone: 1-800-669-5740

Emergency # 1-800-468-1760

**Issue Date**

November 27, 2014

**Supersedes Issue Date**

November 18, 2011

**Original Issue Date**

November 12, 1985

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

### \*\*\* 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.

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## 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.

## 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 \*\*\*

CAS #	Component	Percent
6834-92-0	Silicic acid, disodium salt	25-75*
497-19-8	Carbonic acid disodium salt	20-40
68551-13-3	Alcohols, C12-15, ethoxylated propoxylated	0-5*
127087-87-0	Poly(oxy-1,2-ethanediyl), $\alpha$ -(4-nonylphenyl)- $\omega$ -hydroxy-, branched	0-5*
10101-89-0	Phosphoric acid, trisodium salt, dodecahydrate	0-5*

## 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.

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## 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/PERSONAL 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.

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## \*\*\* 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 Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

### Personal Protective Equipment: Eyes/Face

Safety glasses with side shields should be worn at a minimum. Additional protection, such as goggles, face shields, or respirators may be needed depending upon anticipated use and concentrations of mists or vapors. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. 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.

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## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

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

## \*\*\* 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 \*\*\*

### Toxicity Data

#### 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; Inhalation LC50 Rat 2300 mg/m3 2 h

### Acute Effects

May burn the respiratory tract (nose, throat, and lungs), eyes, skin, and gastrointestinal tract., R41 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.

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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.

## 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.

## Sensitization

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

## Mutagenicity

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

## Reproductive Toxicity

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**.

## Teratogenicity

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

## 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

#### Silicic acid, disodium salt (6834-92-0)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Brachydanio rerio	210 mg/L [semi-static]	
96 Hr LC50 Brachydanio rerio	210 mg/L	
96 Hr EC50 Daphnia magna	216 mg/L	

#### Carbonic acid disodium salt (497-19-8)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Lepomis macrochirus	300 mg/L [static]	
96 Hr LC50 Pimephales promelas	310 - 1220 mg/L [static]	
120 Hr EC50 Nitzschia	242 mg/L	
48 Hr EC50 Daphnia magna	265 mg/L	

### Persistence/Degradability

Not available.

### Bioaccumulation/Accumulation

No information available.

### Mobility in Environmental Media

No information available.

### Other Adverse Effects

No information available.

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## \*\*\* 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

154 Reference *North American Emergency Response Guidebook*

**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

Based on the ingredient(s) 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 Section 313

#### 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

Based on the ingredient(s) listed in SECTION 3, 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):

**Silicic acid, disodium salt (6834-92-0)**

1000 lb final RQ; 454 kg final RQ (related to Sodium hydroxide)

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Carbonic acid disodium salt (497-19-8)

1000 lb final RQ; 454 kg final RQ (related to Sodium hydroxide)

Phosphoric acid, trisodium salt, dodecahydrate (10101-89-0)

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.

## Component Analysis

Component	CAS #	TSCA
Silicic acid, disodium salt	6834-92-0	Yes
Carbonic acid disodium salt	497-19-8	Yes
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	No
Poly(oxy-1,2-ethanediyl), $\alpha$ -(4-nonylphenyl)- $\omega$ -hydroxy-, branched	127087-87-0	Yes
Alcohols, C12-15, ethoxylated propoxylated	68551-13-3	Yes

## State Regulations

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.

## U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
Silicic acid, disodium salt (related to: Sodium hydroxide)	6834-92-0	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
Carbonic acid disodium salt (related to: Sodium hydroxide)	497-19-8	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Yes	Yes	No	No	Yes

## 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

Component	CAS #	CAN
Silicic acid, disodium salt	6834-92-0	DSL
Carbonic acid disodium salt	497-19-8	DSL
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	No
Poly(oxy-1,2-ethanediyl), $\alpha$ -(4-nonylphenyl)- $\omega$ -hydroxy-, branched	127087-87-0	DSL
Alcohols, C12-15, ethoxylated propoxylated	68551-13-3	DSL

## 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).



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## \*\*\* 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.

End of Sheet 82321