



# Safety Data Sheet

Issue Date: 01-May-2002

Revision Date: 28-Mar-2016

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** KLEENFOAM COIL CLEANER

### Other means of identification

**SDS #** KF\_GNC

**UN/ID No**

UN3266

**Other Information**

Package type: 1, 2.5 & 55 gallon units.

### Recommended use of the chemical and restrictions on use

**Recommended Use** Cleaning and brightening aluminum finned cooling and heating coils.

**Uses Advised Against** For professional use only. Product is a concentrate and should be diluted prior to use.

### Details of the supplier of the safety data sheet

#### **Distributed By:**

National Refrigeration Products  
985 Wheeler Way  
Langhorne, PA 19047 USA

### Emergency Telephone Number

**Company Phone Number** 1-800-352-6951

**Emergency Telephone (24 hr)**

Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear brown liquid

**Physical state** Liquid

**Odor** Herbal

### Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

### Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

May be harmful in contact with skin

### Signal Word

**Danger**

### Hazard statements

Causes severe skin burns and eye damage



### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

Immediately call a poison center or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a poison center or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a poison center or doctor/physician  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up  
 Keep containers tightly closed in a dry, cool and well-ventilated place

### **Precautionary Statements - Disposal**

Dispose of in accordance with federal, state and local regulations

### **Other hazards**

Harmful to aquatic life with long lasting effects

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No</b>	<b>Weight-%</b>
Sodium hydroxide	1310-73-2	<50
Potassium hydroxide	1310-58-3	<20
Sodium metasilicate	6834-92-0	<10

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## **4. FIRST-AID MEASURES**

### **First Aid Measures**

<b>Eye Contact</b>	Immediately flush with plenty of water for up to 15 minutes. Immediate medical attention is required.
<b>Skin Contact</b>	Neutralize with very diluted vinegar solution, wash with soap and water, apply skin cream. For large burns - GET IMMEDIATE MEDICAL ATTENTION.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink plenty of water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek medical attention immediately.

**Most important symptoms and effects**

<b>Symptoms</b>	Inhalation may cause irritation to nasal passages. Severe burns to exposed skin. Nausea. Blindness may occur.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Avoid mixing with acids and soft metals.

**Explosion Data****Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Wear impervious to strong alkaline protective clothing.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

<b>Personal Precautions</b>	Use personal protective equipment as required. Wash face, hands, and any exposed skin thoroughly after handling.
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**Environmental precautions****Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so. Neutralize with water and vinegar.
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<b>Methods for Clean-Up</b>	For small spills: wash to drain after product is neutralized. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
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**7. HANDLING AND STORAGE****Precautions for safe handling**

<b>Advice on Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Avoid mixing with acids and soft metals. Use personal protection recommended in Section 8.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.
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<b>Incompatible Materials</b>	Acids. Soft metals.
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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Sodium metasilicate 6834-92-0	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-

**Appropriate engineering controls**

**Engineering Controls** If vapors are detected, ventilate work area by opening windows and using exhaust fans. Always work with wind from behind.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Use tight fitting, splash proof safety goggles. Contact lenses should not be worn when handling this material. Face Mask.

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear protective Neoprene™ gloves.

**Respiratory Protection** Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Herbal
<b>Appearance</b>	Clear brown liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Clear to brownish		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	>12.5	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	1.20	
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

## 10. STABILITY AND REACTIVITY

### Reactivity

This product will warm slightly with the addition of water.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

Product will react violently with the addition of incompatible materials.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

### Conditions to Avoid

Incompatible Materials. Keep out of reach of children.

### Incompatible Materials

Acids. Soft metals.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact**                                      Causes severe eye damage.

**Skin Contact**                                     Causes severe skin burns. May be harmful in contact with skin.

**Inhalation**                                        May cause irritation to the mucous membranes and upper respiratory tract.

**Ingestion**                                         May be harmful if swallowed.

### Component Information

Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Sodium hydroxide 1310-73-2	-	= 1350 mg/kg ( Rabbit )	-
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	-	-
Sodium metasilicate 6834-92-0	= 1153 mg/kg ( Rat )	-	-

### Information on physical, chemical and toxicological effects

**Symptoms**                                        Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity**                                Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Reproductive toxicity**                        May cause genetic defects.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 3,766.47 mg/kg  
 ATEmix (dermal) 3,846.15 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static	
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	216: 96 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Chemical Name	Partition Coefficient
Potassium hydroxide 1310-58-3	0.83

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Sodium hydroxide 1310-73-2	Toxic Corrosive
Potassium hydroxide 1310-58-3	Toxic Corrosive

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

UN/ID No UN3266  
 Proper Shipping Name Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide, Potassium hydroxide)  
 Hazard Class 8  
 Packing Group II  
 Reportable Quantity (RQ) 1000

**IATA**

**UN/ID No** UN3266  
**Proper Shipping Name** Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide, Potassium hydroxide)  
**Hazard Class** 8  
**Packing Group** II

**IMDG**

**UN/ID No** UN3266  
**Proper Shipping Name** Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide, Potassium hydroxide)  
**Hazard Class** 8  
**Packing Group** II

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	DSL/NDL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium hydroxide	X	X	X	Present	X	Present	X	X
Potassium hydroxide	X	X	X	Present	X	Present	X	X
Sodium gluconate	X	X	X	Present	X	Present	X	X
Sodium metasilicate	X	X	X	Present	X	Present	X	X

**Legend:**

- TSCA* - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL* - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS* - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS* - Japan Existing and New Chemical Substances
- IECSC* - China Inventory of Existing Chemical Substances
- KECL* - Korean Existing and Evaluated Chemical Substances
- PICCS* - Philippines Inventory of Chemicals and Chemical Substances
- AICS* - Australian Inventory of Chemical Substances

**US Federal Regulations**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**Acute Health Hazard** Yes  
**Chronic Health Hazard** Yes  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**SARA 313**

Not determined

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X
Potassium hydroxide	1000 lb			X

**US State Regulations**

**U.S. State Right-to-Know Regulations**

Not determined

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide 1310-73-2	X	X	X
Potassium hydroxide 1310-58-3	X	X	X

**16. OTHER INFORMATION**

**NFPA**

**Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS**

**Health Hazards**

3

**Flammability**

0

**Physical hazards**

2

**Personal Protection**

X

**Issue Date:**

01-May-2002

**Revision Date:**

28-Mar-2016

**Revision Note:**

New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**