

Safety Data Sheet

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

	1
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

<u>Precautionary Statements - Response</u>

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

Chemical Name	CAS No	Weight-%
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

Eye Contact Immediately flush with plenty of water for up to 15 minutes. Immediate medical attention is

required.

Skin Contact Neutralize with very diluted vinegar solution, wash with soap and water, apply skin cream.

For large burns - GET IMMEDIATE MEDICAL ATTENTION.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately.

Ingestion 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

Symptoms

Inhalation may cause irritation to nasal passages. Severe burns to exposed skin. Nausea.

Blindness may occur.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

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

Personal Precautions

Use personal protective equipment as required. Wash face, hands, and any exposed skin

thoroughly after handling.

Environmental precautions

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Neutralize with water and vinegar.

Methods for Clean-Up

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).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions

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

Incompatible Materials

Acids. Soft metals.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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

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

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

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

Physical state Liquid

Appearance Clear brown liquid Odor Herbal

Color Clear to brownish **Odor Threshold** Not determined

Property Values Remarks • Method

рΗ >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 Not determined **Auto-ignition Temperature 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	cal 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	0.83
1310-58-3	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of WastesDisposal 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	Toxic		
1310-73-2	Corrosive		
Potassium hydroxide	Toxic		
1310-58-3 Corrosive			
44 TRANSPORT INCORMATION			

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

Dawa C.I

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/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium hydroxide	X	X	X	Present	X	Present	X	X
Potassium hydroxide	Х	Х	Х	Present	Х	Present	Х	Х
Sodium gluconate	Х	Х	Х	Present	Х	Present	Х	Х
Sodium metasilicate	Х	Х	Х	Present	Х	Present	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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	1000 lb		RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ
Potassium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

SARA 313

Not determined

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

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	Х
Potassium hydroxide 1310-58-3	X	X	Х

16. OTHER INFORMATION

<u>NFPA</u>

HMIS

Health Hazards
Not determined

Health Hazards

Flammability
Not determined
Flammability

Instability
Not determined
Physical hazards

Special Hazards
Not determined
Personal Protection

Issue Date: Revision Date: Revision Note: 01-May-2002 28-Mar-2016 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