

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier**Product Name** Karl's Best No-Rinse Coil Cleaner**Other means of identification****Product Code** 5102**Recommended use of the chemical and restrictions on use****Recommended use** Foaming Cooling Coil Cleaner
Uses Advised Against For industrial and institutional use only.**Details of the supplier of the safety data sheet****Company Name** CHEM-MASTER ACQUISITIONS, LLC
PO Box 220908
St. Louis, MO 63122
800-592-5080**Emergency telephone number****Emergency Telephone** CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Flammable Aerosol	Category 2
Gases Under Pressure	Liquefied Gas

Label elements

Emergency Overview

WARNING

Hazard statements

Flammable aerosol. Contains gas under pressure; may explode if heated.

**Appearance:** White Foam**Physical state:** Liquefied Gas**Odor:** Citrus scent, moderate ammonia odor**Precautionary Statements - Prevention**

Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or bum, even after use. Wear safety glasses/goggles.

Precautionary Statements - Storage

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Precautionary Statements - Disposal

Dispose of contents in accordance with federal, state and local regulations.

Hazards not otherwise classified (HNOC)**Other Information**

• N/A

Unknown Acute Toxicity

N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
N-Butane	106-97-8	1-5%	*
Propane	74-98-6	1-5%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures**Skin Contact**

Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation develops.

Eye Contact

Immediately flush with water for 15 minutes while holding eyelids open. Seek medical attention if irritation develops.

Inhalation

Move to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing administer artificial respiration. Seek medical attention if irritation persists.

Ingestion

Do not induce vomiting unless directed by medical authority. Immediately rinse mouth with water. Drink large quantities (1 qt, 2-4 glasses) of warm water. Seek immediate medical attention.

Most important symptoms and effect, both acute and delayed**Symptoms**

ACUTE HEALTH HAZARDS: Prolonged contact with skin may cause irritation. Contact with eyes may cause irritation, redness, tearing. Inhalation of mist or vapors may cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH HAZARDS: Prolonged inhalation may be harmful.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, carbon dioxide, foam, water spray for cooling.

Unsuitable extinguishing media: N/A

Unusual fire and explosion hazards

FLAMMABLE. Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Hazardous combustion products

Oxides of carbon and nitrogen.

Special fire fighting procedures

Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Shut off all sources of ignition. Use water spray to disperse vapor and cool fire exposed containers. Prevent run off from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal precautions**

Refer to section 8 for proper Personal Protective Equipment.

Methods and material for containment and cleaning up**Methods for containment & cleaning up**

Eliminate all sources of ignition. Absorb with non-combustible material like vermiculite, sand or earth. Place waste in proper containers for waste disposal. Dispose of contents in accordance with federal, state and local regulations. Do not dump in sewers.

RCRA status

Waste likely considered D00 1 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on Safe Handling**

Avoid contact with skin, eyes and clothing. Keep out of the reach of children. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store in a cool, dry area. Do not use or store with strong oxidizers. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use.

Incompatible Materials

Strong acids, strong alkalis, strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

CHEMICAL NAME	OSHA PEL	ACGIH TLV
N-Butane	Not Established	1000 ppm
Propane	1000 ppm	1000 ppm

Appropriate engineering controls**Engineering Controls**

General ventilation and local exhaust recommended.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety glasses/goggles.

Respiratory protection

Not required with normal use. Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.

Additional Measures

Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquefied Gas
Appearance	White Foam
Color	White
Odor	Citrus scent, moderate ammonia odor
Odor Threshold	N/D

Property**Values**

pH	11.3 - 11.7
Melting Point/Freezing Point	< 32 °F (0 °C)
Initial Boiling Point And Boiling Range	> 212 °F (100 °C)
Flash Point	N/D
Evaporation Rate	Slow
Flammability (Solid/Gas)	Flammable Aerosol
Upper/Lower Flammability Or Explosive Limits	N/D
Lower Flammability Limit	N/D
Upper Flammability Limit	N/D
Explosive Limit Lower(%)	N/D
Explosive Limit Upper(%)	N/D
Vapor Pressure (mm Hg)	N/D
Vapor Density (AIR=1)	N/D
Relative Density (H2O=1)	0.99 - 1.01 @ 77 °F (25 °C)
Solubility (IES)	100% water
Partition Coefficient	N/D
Autoignition Temperature	N/D
Decomposition Temperature	N/D
Viscosity	N/D

10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Temperatures greater than 122 °F and sources of ignition. Avoid incompatibles.

Incompatible Materials

Strong acids, strong alkalis, strong oxidizing agents

Hazardous Decomposition Products

Oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Eyes, Ingestion, Inhalation, Skin

Product Information

RCRA status

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14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

UN/ID No.	UN 1950
Proper Shipping Name	Aerosols, Ltd. Qty.
Hazard Class	2.1
Packing Group	N/A

AIR SHIPMENT

UN/ID No.	UN 1950
Proper Shipping Name	Aerosols, Flammable
Hazard Class	2.1
Packing Group	N/A

SHIPPING BY WATER: VESSEL (IMO/IMDG)

UN/ID No.	UN 1950
Proper Shipping Name	Aerosols
Hazard Class	2.1
Environmental Hazards Water	N/A
Packing Group	N/A

15. REGULATORY INFORMATION

International Inventories

TSCA All Chemicals are listed or exempt.

Legend:

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

US Federal Regulations**SARA 313**

This product does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazard Categories

Flammable (gases, aerosols, liquids, solids). Gas under pressure.

CERCLA

Ethylenediaminetetraacetic acid (EDTA) (60-00-4) Reportable Quantity= 5000 pounds. **Potassium hydroxide (1310-58-3)** Reportable Quantity= 1,000 pounds. **Sodium nitrite (7632-00-0)** Reportable Quantity= 100 pounds. **Ammonium hydroxide (1336-21-6)** Reportable Quantity= 1,000 pounds.

CWA (Clean Water Act)

Ethylenediaminetetraacetic acid (EDT A) (60-00-4) is a hazardous substance.

US State Regulations

California Proposition 65: This product contains no known chemicals regulated by California Proposition 65.

U.S. State Right-to-Know Regulations

Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states:

Chemical Name	CA	MA	MN	NJ	PA	NY	RI	WA	CT	FL	IL	TN	LA
2-Butoxyethanol (111-76-2)		X			X		X						
Isopropyl alcohol (67-63-0)		X	X	X	X		X		X	X	X	X	
Ethylenediaminetetraacetic acid (EDTA) (60-00-4)		X			X								
Potassium hydroxide (1310-58-3)	X	X	X	X	X	X	X				X		X
Sodium nitrite (7632-00-0)		X		X	X								

International Regulations

No information available.

Volatile Organic Compounds (VOC)

16%

16. OTHER INFORMATION

NFPA	Health hazards	1	Flammability	1	Reactivity	1	Other	None
HMS	Health hazards	1	Flammability	0	Reactivity	1	Personal protection	A

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Revision Note

N/A = Not Applicable; N/D = Not Determined

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