

1. IDENTIFICATION

Product Name

Top-Kleen™ Self-Rinsing Evaporator Coil Cleaner

Catalog No.: TT-8-G

Manufactured for:

Carrier Enterprises LLC

BY:

Specialty Chemical Manufacturing, Inc.

A DiversiTech Company

6650 Sugarloaf Parkway #100, Duluth, GA, 30097

EMERGENCY Phone No.: +1 800.255.3924 Chem-Tel (Chemical Emergencies)

Phone (For Information): +1 678.542.3600

2. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO	EINECS NO	%	Haz Symbol	Risk Phrases
Water			80-90		
2-Butoxyethanol	111-76-2	203-905-0	1-5	Xn	R20/21/22
			Xi		R36, R38
Sodium silicate	1344-09-8	215-687-4	<1	Not classified	
Tetrasodium EDTA	64-02-8	200-573-9	<1	Xn, Xi	R22, R41

Additional information: *For the wording of the listed risk phrases refer to section 15.*

3. HAZARDS IDENTIFICATION

Overview: This product may cause irritation to eyes and other sensitive tissues on contact or after prolonged exposures.

Inhalation: Effects from inhalation of mists and vapors vary from mild to moderate irritation of the upper respiratory tract, depending on severity of exposure. Abusive or excessive inhalation of vapors may cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects.

Ingestion: Swallowing can cause gastro-intestinal irritation, nausea, vomiting, diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis. Minimal toxicity.

Skin Contact: Frequent or prolonged contact may cause irritation.

Eye Contact: May cause pain and moderate irritation of eyes.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the product.

4. FIRST AID

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing stops, give artificial respiration. Call a physician.

Ingestion: DO NOT INDUCE VOMITING! Drink 2-3 glasses of water or milk, and call the nearest poison control center, or the National Poison Control Hotline at 1-800-222-1222 for advice.

Skin Contact: Wash with soap and water. Rinse with copious amounts of fresh, running water. If Irritation persists, get medical attention.

Eye Contact: Immediately flush eyes with large amounts of cool running water for at least 15 minutes while holding eyelids open. If irritation persists, get medical attention immediately.

5. FIREFIGHTING MEASURES

Flash Point: None

Fire Extinguishing Media: Use foam, CO₂, dry chemical or other media suitable for the primary source of the fire.

Special Information: This product is non-flammable. In the event of a fire, vapors or mists from this product may irritate eyes and breathing passages. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode. Cool fire-exposed containers with a water spray

6. SPILL/ACCIDENTAL RELEASE MEASURES

Remove contaminated clothing immediately. Keep unnecessary and unprotected people away from area of spill. Ventilate area of leak or spill. Contain and absorb liquid with clay, vermiculite or other inert substance, sweep up and package in a container suitable for disposal. Wash away residues with water. Dispose of absorbed material in accordance with Federal, local and state regulations.

7. HANDLING AND STORAGE

Protect from physical damage. Store in a cool, dry, ventilated area. Keep this and all chemicals out of the reach of children. Wash hands thoroughly after handling.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION**Airborne Exposure Limits:**

OSHA Permissible Exposure Limit (PEL): 50ppm (skin) for 2-butoxyethanol

ACGIH Threshold Limit Value (TLV): 20ppm (butoxyethanol)

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Personal Respirators: Not required for normal use in accordance with label directions.

Skin Protection: Use rubber, neoprene or nitrile gloves to minimize skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. A source of running water or other eyewash provisions should be nearby.

Work Hygienic Practices: Use proper industrial hygiene practices and follow label instructions to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking.

9. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:>220°F

Specific gravity (H₂O = 1):1.02

Vapor pressure (mm Hg): Same as water

Vapor Density (Air = 1): >1

Evaporation Rate (Water = 1): >1

VOC Content: <2%

Solubility in water: Water miscible

pH @ 25°C: 11

Appearance: Clear green liquid

Odor: Mild glycol ether odor

10. STABILITY and REACTIVITY DATA

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen sulfide, Sulfur dioxide

Hazardous Polymerization: Will not occur.

Incompatibilities: Avoid contact with strong oxidizing agents, strong alkalis and strong acids.

Conditions to Avoid: Incompatibles.

11. TOXICOLOGY INFORMATION

NTP Carcinogen: No

Toxicological data: There is no data available on the product itself.

Acute toxicity: Ingestion may cause nausea and vomiting. Inhalation of high vapor concentrations can cause irritation of the mucous membrane and the respiratory system. Symptoms include headaches, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

Corrosivity/irritation: Irritating to eyes. Prolonged contact with skin may cause irritation.

12. ECOLOGICAL INFORMATION

Mobility: Final destination of reacted products is water. Readily adsorbed into soil.

Degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential based on available literature.

Other adverse effects: Concentrated product is moderately harmful to aquatic organisms.

Biodegradation Data:

Material	Percentage	CAS #	
Sodium LAS	1-5%	25155-30-0	No data found.
Polyethylene glycol monotridecyl ether	<1%	24938-91-8	No data found. Analagous compounds are readily biodegradable

13. DISPOSAL CONSIDERATIONS

Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations. Whatever cannot be saved by recovery should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. Empty containers of this material, properly rinsed with water, pose no disposal hazard and may be recycled. State and local disposal regulations may differ from federal disposal regulations.

14. TRANSPORTATION INFORMATION

US DOT: Compound, cleaning, liquid (Non-hazardous)

INTERNATIONAL

Water, I.M.O.: Not a shipping hazard

Proper Shipping Name: None

Hazard Class: None

UN: None

Marine Pollutant: No

15. REGULATORY INFORMATION

EC Classification:

**Risk phrases:**

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R36: Irritating to eyes.

R37: Irritating to respiratory system

R38: Irritating to skin.

R41: Risk of serious damage to eyes

Safety phrases:

S2: Keep out of reach of children

S23: Do not breathe fumes, vapor or spray

S24: Avoid contact with skin.

S25: Avoid contact with eyes.

The following components are listed in the EC Annex:

Ingredient	%	CAS #	EINECS #	Risk Phrase
Water	85-95			
2-Butoxyethanol	1-5	111-76-2	203-905-0	R36/38
Sodium silicate	<1	1344-09-8	215-687-4	Not classified as hazardous
Tetrasodium EDTA	<1	64-02-8	200-573-9	R22, R41

US EPA:**Comprehensive Environmental Response Compensation and Liability**

Act of 1980 (CERCLA) requires notification of the National Response Center of release quantities of Hazardous Substances is not required for this material.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355 (used for SARA 302, 304, 311, and 312) is not required for quantities below 250 pounds.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This material is not subject to reporting requirements.

Toxic Substances Control Act (TSCA) Status: The ingredients of this product are on the TSCA inventory.

State Right to Know

California Proposition 65: Not subject to reporting requirements under Prop 65

Massachusetts: Hazardous substances and extraordinarily hazardous substances must be identified.

Pennsylvania: Hazardous substances must be identified.

California SCAQMD Rule 443.1 (VOC's): <2%

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

CANADA INVENTORY (DSL/NDSL): All components of this product are listed on the DSL.

16. OTHER INFORMATION

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning: Caution! Avoid contact with eyes or prolonged contact with skin

Label Precautions:

Consult MSDS before using this product. Do not use this product until you have read all warning statements on the bottle and consulted the MSDS. For use by trained professional only. Use only according to label directions. Wash thoroughly after use.

Label First Aid:

Eye Contact: Flush with flowing water for 15 minutes. If irritation persists, get medical attention.

If Swallowed: Do not induce vomiting. Drink 3 large glasses of water followed by citrus juice. Get medical attention immediately.

Skin Contact: Wash affected area immediately with soap and water. If irritation persists, get medical attention.

Inhalation: Remove person to fresh air. If breathing has not returned to normal within a few minutes, get medical attention.

Product Use:

Air conditioning and refrigeration coil cleaner

17. ADDITIONAL INFORMATION:

This information is provided in accordance with the requirements of the UK Health and Safety at Work Act 1974, and specifically in order to assist users of the product to make their 'assessment of health risks' as required by the UK Control of Substances Hazardous to Health Regulation 1988 (COSHH assessments). Provision of this information does not preclude users from seeking advice from other sources as indicated in the COSHH guides.

This information is intended to cover potential hazards at the place of work and does not detail medical uses, indications, contra-indications and precautions for the treatment of patients.

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information.