SAFETY DATA SHEET



6508

CHM00708

1. Product and Company Identification

Evap-Fresh No Rinse Evaporator Cleaner & Disinfectant (4166-75)

SDS REC'D by Trane February 14, 2018

Other means of identification Not available

Recommended use Cleaner / Disinfectant / Mildewstat / Deodorizer

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Product identifier

Company name Nu-Calgon
Address 2008 Altom Court
St. Louis, MO 63146

United States

Telephone 314-469-7000 / 800-554-5499

E-mail info@nucalgon.com

Emergency phone number 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Physical hazardsGases under pressureLiquefied gasHealth hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2

Specific target organ toxicity, repeated

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye

irritation. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection. Do not

breathe mist or vapor.

Response If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation occurs:

Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

Category 2

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Storage Protect from sunlight. Store in a well-ventilated place.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information This is a registered EPA product. The product labeling is in compliance with EPA regulations and

guidelines.

3. Composition/Information on Ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	1-5
Diethylene glycol monobutyl ether		112-34-5	1-5

Chemical name Common name and synonyms CAS number Propane 74-98-6 Tetrasodium ethylenediamine 64-02-8 1-5 tetraacetate US GHS: The exact percentage (concentration) of composition has been withheld as a trade Composition comments secret in accordance with paragraph (i) of §1910.1200. 4. First Aid Measures Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. If on skin or clothing: Take off contaminated clothing, Rinse skin immediately with plenty of water Skin contact for 15-20 minutes. Call a poison control centre or doctor for treatment advice. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if Eye contact present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person Ingestion sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May Most important cause redness and pain. symptoms/effects, acute and delayed Probable mucosal damage may contraindicate the use of gastric lavage. Indication of immediate medical attention and special treatment needed **General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 5. Fire Fighting Measures Suitable extinguishing media Alcohol resistant foam. Carbon dioxide. Dry chemical. Unsuitable extinguishing Do not use water jet. media Specific hazards arising from Contents under pressure. the chemical Special protective equipment Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. and precautions for firefighters In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed Fire fighting to heat. Move containers from fire area if you can do so without risk. Use water spray to cool equipment/instructions unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Specific methods Cool containers exposed to flames with water until well after the fire is out. 6. Accidental Release Measures Personal precautions, Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch protective equipment and damaged containers or spilled material unless wearing appropriate protective clothing. Ensure emergency procedures adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Methods and materials for Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) containment and cleaning up away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 7. Handling and Storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid contact with eyes, skin and clothing.

#26516 Page: 2 of 9 Issue date 20-June-2017 Conditions for safe storage, including any incompatibilities

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49 can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Protect from sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Propane (CAS 74-98-6)	PEL	1800 mg/m3
		1000 ppm

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Butane (CAS 106-97-8)	STEL	1000 ppm	
Diethylene glycol monobutyl ether (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide to Chem	ical Hazards	Value	

	. , , , ,	
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Not available.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not applicable.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance Sprav

Physical state Gas Liquid under pressure via propellant.

Form Aerosol. Liquefied gas.

Color Clear Odor Lemon **Odor threshold** Not available. 12.5 pН

Melting point/freezing point

Initial boiling point and boiling

range

Not available. Not available.

Not available. Pour point Specific gravity 1.005 g/mL Not available. Partition coefficient

(n-octanol/water)

Flash point Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

#26516 Page: 3 of 9 Issue date 20-June-2017 Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available.

Not available. Relative density Solubility(ies) Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Viscosity Not available.

Other information

4.57 kJ/g Heat of combustion

VOC (Weight %) 5.0% by weight (US federal, CARB/OTC/LADCO)

Not available.

10. Stability and Reactivity

Reacts vigorously with acids. Reactivity

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

Conditions to avoid Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with

other chemicals.

Incompatible materials Oxidizing agents. Acids.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

11. Toxicological Information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

Acute toxicity

Species **Test Results** Components

Butane (CAS 106-97-8)

Acute Dermal

LD50 Not available

Inhalation LC50 Mouse 539600 ppm, 120 Minutes, ECHA 520400 ppm, 120 Minutes, ECHA 1237 mg/L, 120 Minutes 680 mg/L, 2 Hours, HSDB 57 %, 120 Minutes, ECHA 52 %, 120 Minutes Rat > 800000 ppm, 10 Minutes, ECHA 1442738 mg/m3, 10 Minutes, ECHA

Components	Species	Test Results
		1780 mg/kg, ECHA
		1700 mg/kg, ECHA
		1658 mg/kg, LOLI

Skin corrosion/irritation Causes skin irritation.

Exposure minutes Not available. Not available. Erythema value Not available. Oedema value

Serious eye damage/eye

irritation

Not available. Corneal opacity value Not available. Iris lesion value Conjunctival reddening Not available.

value

Conjunctival oedema value Not available. Recover days Not available.

Respiratory or skin sensitization

Not available. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

Causes serious eye irritation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

US. National Toxicology Program (NTP) Report on Carcinogens

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Not likely, due to the form of the product. **Aspiration hazard Chronic effects** Prolonged inhalation may be harmful.

Further information Not available.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Aquatic

Components **Species Test Results**

Diethylene glycol monobutyl ether (CAS 112-34-5)

Crustacea EC50 Daphnia 2850 mg/L, 48 Hours

Fish LC50

Bluegill (Lepomis macrochirus) 1300 mg/L, 96 hours

Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)

EC50 Algae Algae 1.01 mg/L, 72 Hours Aquatic Crustacea EC50 Water flea (Daphnia magna) 610 mg/L, 24 hours Fish LC50 Bluegill (Lepomis macrochirus) 472 - 500 mg/L, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

2.89 Butane Diethylene glycol monobutyl ether 0.56

Partition coefficient n-octanol / water (log Kow)

2.36 Propane

Mobility in soil No data available. Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Container Disposal: Nonrefillable container. Do not reuse empty container. Do not puncture or **Disposal instructions**

incinerate. IF EMPTY: Place in trash or offer for recycling if available. IF PARTLY FILLED: Call your local waste agency for disposal instructions. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number

Proper shipping name Aerosols, non-flammable, (each not exceeding 1 L capacity)

Hazard class Limited Quantity - US Packaging exceptions <1L - Limited Quantity

Packaging non bulk None Packaging bulk None

IATA/ICAO (Air)

Basic shipping requirements:

UN number UN1950

Proper shipping name Aerosols, non-flammable **Hazard class** Limited Quantity - IATA

<1L - Limited Quantity **IMDG (Marine Transport)**

Basic shipping requirements:

UN number UN1950 **AEROSOLS** Proper shipping name

Limited Quantity - IMDG **Hazard class**

<1L - Limited Quantity

DOT; IMDG





15. Regulatory Information

US federal regulations

This is an EPA registered product. This material can only be used commercially in the EPA registered application(s) noted on the product label.

EPA Reg. # 1839-84-65516

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

WARNING

KEEP OUT OF THE REACH OF CHILDREN, Causes eve and skin irritation. Do not get in eves, on skin or on clothing. Harmful if swallowed. Avoid contamination of food. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

Contents under pressure. Do not puncture. Do not use or store near open flame. Exposure to temperatures above 130°F may cause bursting. Never throw container into fire or incinerator.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Butane (CAS 106-97-8) Listed. Diethylene glycol monobutyl ether (CAS 112-34-5) Listed. Propane (CAS 74-98-6) Listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Nο

No

Immediate Hazard - Yes Hazard categories

Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Diethylene glycol monobutyl ether	112-34-5	1-5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Diethylene glycol monobutyl ether (CAS 112-34-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US - Illinois Chemical Safety Act: Listed substance

Butane (CAS 106-97-8)

Diethylene glycol monobutyl ether (CAS 112-34-5)

Propane (CAS 74-98-6)

US - Louisiana Spill Reporting: Listed substance

Butane (CAS 106-97-8) Listed. Diethylene glycol monobutyl ether (CAS 112-34-5) Listed. Propane (CAS 74-98-6)

US - Minnesota Haz Subs: Listed substance

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

BUTANE

PROPANE

US - New Jersey RTK - Substances: Listed substance

Butane (CAS 106-97-8)

Diethylene glycol monobutyl ether (CAS 112-34-5)

Propane (CAS 74-98-6)

US - Texas Effects Screening Levels Hazard Data: Simple asphyxiant

Propane (CAS 74-98-6)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Listed.

Not listed

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8)

Diethylene glycol monobutyl ether (CAS 112-34-5)

Propane (CAS 74-98-6)

US. Pennsylvania RTK - Hazardous Substances

Butane (CAS 106-97-8)

Diethylene glycol monobutyl ether (CAS 112-34-5)

Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8)

Diethylene glycol monobutyl ether (CAS 112-34-5)

Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8)

Diethylene glycol monobutyl ether (CAS 112-34-5)

Propane (CAS 74-98-6)

US. California Proposition 65

This product is not subject to warning labeling under the California Proposition 65 regulation.

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

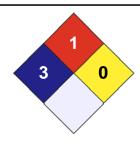
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Yes

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date20-June-2017Revision date20-June-2017

Version # 02

Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000