SAFETY DATA SHEET



1. Product and Company Identification

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

Other means of identification Not available

Recommended use Cleaner / Disinfectant / Mildewstat / Deodorizer

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

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	1-5
Tetrasodium ethylenediamine tetraacetate		64-02-8	1-5
Composition comments	US GHS: The exact percentage (concentration secret in accordance with paragraph (i) of §19		rithheld as a trade
	4. First Aid Measures		
Inhalation	Move person to fresh air. If person is not brea respiration, preferably mouth-to-mouth if poss treatment advice.		
Skin contact	If on skin or clothing: Take off contaminated c for 15-20 minutes. Call a poison control centre		
Eye contact	Hold eye open and rinse slowly and gently wit present, after the first 5 minutes, then continue for treatment advice.		
Ingestion	If swallowed: Call a poison control center or disp a glass of water if able to swallow. Do not control center or doctor. Do not give anything	induce vomiting unless told to	o do so by a poison
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redn cause redness and pain.	ess, swelling, and blurred vis	ion. Skin irritation. May
Indication of immediate medical attention and special treatment needed	Probable mucosal damage may contraindicate	e the use of gastric lavage.	
General information	Ensure that medical personnel are aware of the protect themselves.	ne material(s) involved, and to	ake precautions to
_	5. Fire Fighting Measure	es	
Suitable extinguishing media	Alcohol resistant foam. Carbon dioxide. Dry cl	nemical.	
Unsuitable extinguishing media	Do not use water jet.		
Specific hazards arising from the chemical	Contents under pressure.		
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equiface shield, gloves, rubber boots, and in enclo		ant coat, helmet with
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do n to heat. Move containers from fire area if you unopened containers. Containers should be c For massive fire in cargo area, use unmanned withdraw and let fire burn out.	can do so without risk. Use wooled with water to prevent v	rater spray to cool apor pressure build up.
Specific methods	Cool containers exposed to flames with water	until well after the fire is out.	
	6. Accidental Release Meas	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out spill/leak. Wear appropriate protective equipm damaged containers or spilled material unless adequate ventilation. Local authorities should contained. For personal protection, see section	ent and clothing during clear wearing appropriate protect be advised if significant spilla	-up. Do not touch ve clothing. Ensure
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or in smoking, flares, sparks, or flames in immediat away from spilled material. Stop leak if you ca open area if the leak is irreparable. Isolate are waterways, sewer, basements or confined are water. For waste disposal, see section 13 of the	te area). Keep combustibles on do so without risk. Move the a until gas has dispersed. Preas. Following product recove	(wood, paper, oil, etc.) e cylinder to a safe and event entry into
Environmental precautions	Avoid discharge into drains, water courses or		
	7. Handling and Storag	e	
Precautions for safe handling	Pressurized container: Do not pierce or burn, or defective. Do not spray on a naked flame o while using or until sprayed surface is thoroug expose containers to heat, flame, sparks, or o when transferring material. Do not re-use empwell-ventilated areas. Wear appropriate perso hygiene practices. Avoid contact with eyes, ske	r any other incandescent ma hly dry. Do not cut, weld, sol- ther sources of ignition. Grou by containers. Avoid prolongonal protective equipment. Ob	terial. Do not smoke der, drill, grind, or and bond containers ded exposure. Use only in

Conditions for safe storage, including any incompatibilities

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as 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

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	nical Hazards		
Components	Type	Value	

 Components
 Type
 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 valuesNo 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

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

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 Spray

Physical state Gas Liquid under pressure via propellant.

Form Aerosol. Liquefied gas.

Color Clear
Odor Lemon
Odor threshold Not available.
pH 12.5

Melting point/freezing point

Initial boiling point and boiling range

Not available. Not available.

Pour pointNot available.Specific gravity1.005 g/mLPartition coefficientNot available.

(n-octanol/water)

Flash point

Evaporation rate

Flammability (solid, gas)

Not available.

Not available.

Not applicable.

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Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Explosive limit - upper (%)

Vapor pressure

Vapor density

Relative density

Solubility(ies)

Auto-ignition temperature

Viscosity

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Other information

Heat of combustion 4.57 kJ/g

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

10. Stability and Reactivity

Reactivity

Reacts vigorously with acids.

Possibility of hazardous

No dangerous reaction known under conditions of normal use.

reactions

Material is stable under normal conditions.

Chemical stability
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

Components Species Test Results

Butane (CAS 106-97-8)

AcuteDermal

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 | ECHA | 52 %, 120 Minutes | Rat | > 800000 ppm, 10 Minutes, ECHA | 1442738 mg/m3, 10 Min

Components	Species	Test Results 1354944 mg/m3, 10 Minutes, ECHA
		570000 ppm, 10 Minutes, ECHA
		276000 ppm, 4 Hours, CCOHS
		1443 mg/L, 10 Minutes, ECHA
		1355 mg/L, 10 Minutes
Oral		3 , 1
LD50	Not available	
Diethylene glycol monobutyl	ether (CAS 112-34-5)	
Acute		
Dermal	-	
LD50	Rabbit	2700 mg/kg
Inhalation LC50	Not available	
	Not available	
<i>Oral</i> LD50	Guinea pig	2000 mg/kg
	Mouse	2400 mg/kg
	Rabbit	2200 mg/kg
(0.4.0.74.00.0\	Rat	3384 mg/kg
Propane (CAS 74-98-6) Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Mouse	539600 ppm, 120 Minutes, ECHA
		520400 ppm, 120 Minutes, ECHA
		1237 mg/L, 120 Minutes
		57 %, 120 Minutes, ECHA
		52 %, 120 Minutes
	Rat	> 12000000 ppm, 4 hours
		> 800000 ppm, 10 Minutes, ECHA
		> 1464 mg/L, 15 Minutes, HSDB
		1442738 mg/m3, 10 Minutes, ECHA
		1354944 mg/m3, 10 Minutes, ECHA
		570000 ppm, 10 Minutes, ECHA
		1355 mg/L, 10 Minutes
Oral	New york (Ind.)	
LD50	Not available	
	e tetraacetate (CAS 64-02-8)	
Acute Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	> 2000 mg/kg, HSDB
		3200 mg/kg, ECHA
		2700 mg/kg, ECHA
		2581 mg/kg, ECHA
		— — — — — — — — — — — — — — — — — — —
		2150 mg/kg, ECHA

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

Causes skin irritation. Skin corrosion/irritation

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

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)

EC50 Crustacea Daphnia 2850 mg/L, 48 Hours

Fish LC50 Bluegill (Lepomis macrochirus)

Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8) 1.01 mg/L, 72 Hours

EC50 Algae Algae

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) Butane

2.89 Diethylene glycol monobutyl ether 0.56

1300 mg/L, 96 hours

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 eye and skin irritation. Do not get in eyes, 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)

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

Propane (CAS 74-98-6)

Listed.

Listed.

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

chemical

No

Nο

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

Administration (FDA)

(SDWA)

Not regulated.

Food and Drug 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

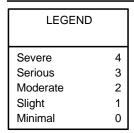
This product is not subject to warning labeling under the California Proposition 65 regulation.

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

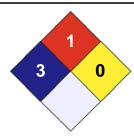
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

16. Other Information







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.

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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

Yes