

SAFETY DATA SHEET

	1. Product and Company	Identification		
Product identifierEvap-Fresh N	lo Rinse Evaporator Cleaner & Disinfect	ant (4166-08, 4166-24, 4166-01)		
Other means of identification	eans of identification Not available			
Recommended use	Not available.			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier/I	Distributor information			
Manufacturer				
Company name Address	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 United States			
Telephone	314-469-7000 / 800-554-5499			
E-mail	info@nucalgon.com			
Emergency phone number	1-800-424-9300 (CHEMTREC)			
	2. Hazards Identifi	cation		
Physical hazards	Not classified.			
Health hazards	Skin corrosion/irritation	Category 2		
	Serious eye damage/eye irritation	Category 1		
Environmental hazards	Not classified.			
OSHA defined hazards	Not classified.			
Label elements				
Signal word Hazard statement	Danger Causes skin irritation.			
	Causes serious eye damage.			
Precautionary statement				
Prevention	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.			
Response	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/doctor. 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.			
Storage	Store away from incompatible materials.			
Disposal	Dispose of contents/container in accord	lance with local/regional/national/international regulations.		
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	%
Diethylene glycol monobutyl ether		112-34-5	5 - 10
Tetrasodium ethylenediamine tetraacetate		64-02-8	3 - 7
n- Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides		68391-01-5	< 0.1

Chemical name	Common name and synonyms	CAS number	%	
n- Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides		85409-23-0	< 0.1	
Composition comments	US GHS: The exact percentage (concentration) of composition has been withheld as a trade 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.			
Skin contact	If on skin or clothing: Take off contaminated clo for 15-20 minutes. Call a poison control centre	thing. Rinse skin immediate or doctor for treatment advid	ely with plenty of water ce.	
Eye contact	Hold eye open and rinse slowly and gently with present, after the first 5 minutes, then continue for treatment advice.			
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control cente doctor. Do not give anything by mouth to an unconscious person.			
Most important symptoms/effects, acute and delayed	Causes serious eye damage. Symptoms may ir blurred vision. Permanent eye damage includin		ness, swelling, and	
Indication of immediate medical attention and special treatment needed	Treat patient symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.			
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes, skin and clothing. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.			
	5. Fire Fighting Measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbor	n dioxide.		
Unsuitable extinguishing media	Not available.			
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.			
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.			
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.			
General fire hazards	No unusual fire or explosion hazards noted.			
	6. Accidental Release Measu	ures		
Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Keep out of low areas. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriat protective clothing. Local authorities should be advised if significant spillages cannot be co For personal protection, see section 8 of the SDS.			
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills in original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.			
Environmental precautions	Do not discharge into lakes, streams, ponds or	public waters.		
	7. Handling and Storage	!		
Precautions for safe handling	It is a violation of Federal Law to use this produ Avoid contact with eyes, skin and clothing. Do not breathe mist or vapor. Provide adequate ventilation. Wear appropriate personal protective equipmer Avoid prolonged exposure.		with its labeling.	

8. Exposure Controls/Personal Protection

Components	Туре	Value	Form	
Diethylene glycol monobutyl ether (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.	
Biological limit values	No biological exposure limits noted fo	r the ingredient(s).		
Exposure guidelines	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.			
Appropriate engineering controls	Ensure adequate ventilation.			
ndividual protection measures,	such as personal protective equipme	ent		
Eye/face protection	Wear safety glasses with side shields	(or goggles) and a face shie	ld.	
Skin protection				
Hand protection	Rubber gloves. Confirm with a reputable supplier first.			
Other	As required by employer code.			
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.			
Thermal hazards	Not applicable.			
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before brea and immediately after handling the product. When using do not eat or drink.			

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9. Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid.	
Form	Liquid.	
Color	Not available.	
Odor	Not available.	
Odor threshold	Not available.	
рН	11.7	
Melting point/freezing point	> 32 °F (> 0 °C)	
Initial boiling point and boiling range	212 °F (100 °C)	
Pour point	Not available.	
Specific gravity	1.007 g/ml (8.38 lb/gal)	
Partition coefficient (n-octanol/water)	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or exp	losive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)	Complete	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	

Viscosity

Not available.

10. Stability and Reactivity

Reactivity	May react with incompatible materials.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Information on likely routes of e	xposure		
Ingestion	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	Causes skin irritation.		
Eye contact	Causes serious eye damage.		
Symptoms related to the physical, chemical and toxicological characteristics	Causes serious eye damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.		
Information on toxicological effe	ects		
Acute toxicity			
Components	Species	Test Results	
Diethylene glycol monobutyl ether	(CAS 112-34-5)		
Acute			
Dermal			
LD50	Rabbit	2700 mg/kg	
Inhalation	N		
LC50	Not available		
Oral			
LD50	Guinea pig	2000 mg/kg	
	Mouse	2400 mg/kg	
	Rabbit	2200 mg/kg	
	Rat	3384 mg/kg	
Tetrasodium ethylenediamine tetra	acetate (CAS 64-02-8)		
Acute			
Dermal			
LD50	Not available		
Inhalation			
LC50	Not available		
Oral			
LD50	Rat	1658 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		

Respiratory or skin sensitization	1			
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Respiratory sensitization	Not available.			
Skin sensitization	This product is not expected to cause skin sensitization.			
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.			
US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)			
Not listed.				
Reproductive toxicity	This product	is not expected to cause reproductive or	developmental effects.	
Specific target organ toxicity - single exposure	Not classified	d.		
Specific target organ toxicity - repeated exposure	Not classified	d.		
Aspiration hazard	Not classified	d.		
Chronic effects	Prolonged in	halation may be harmful.		
Further information	Not available	9.		
		12. Ecological Information		
Ecotoxicity	See below			
Components		Species	Test Results	
Diethylene glycol monobutyl e		-34-5)		
Crustacea	EC50	Daphnia	2850 mg/L, 48 Hours	
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/L, 96 hours	
Tetrasodium ethylenediamine	tetraacetate (0	CAS 64-02-8)		
Algae	EC50	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 av	vailable on the degradability of this produ	Ict.	
Bioaccumulative potential	No data avai	lable.		
Partition coefficient n-octan Diethylene glycol monobutyl e		Kow) 0.56		
Mobility in soil	No data avai	lable.		
Mobility in general	Not available	3.		
Other adverse effects		verse environmental effects (e.g. ozone d docrine disruption, global warming poten		
		13. Disposal Considerations		
Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations. Nonrefillable container. Do not reuse or refill the container. Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure 2 more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill. PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.			
Local disposal regulations		ccordance with all applicable regulations		
Hazardous waste code	-	ode should be assigned in discussion be	tween the user, the producer and the waste	
Waste from residues / unused products		iners or liners may retain some product r of in a safe manner (see: Disposal instru	esidues. This material and its container must ictions).	
Contaminated packaging			iste handling site for recycling or disposal. , follow label warnings even after container is	

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

	15. Regulate	ory Informatio	n	
US federal regulations	Standard, 29 CFR 1910.1200 This chemical is a pesticide p Agency and is subject to cert requirements differ from the o sheets (SDS), and for workpl required on the pesticide labe important information, includi PRECAUTIONARY STATEM Hazards to humans and Dom CAUTION: Causes moderate). broduct registered l ain labeling require classification criteri ace labels of non-p el is reproduced be ng directions for us ENTS: hestic animals. a eye irritation. Avo	ned by the OSHA Hazard Communication by the United States Environmental Protection ements under federal pesticide law. These ia and hazard information required for safety data pesticide chemicals. The hazard information elow. The pesticide label also includes other se. bid contact with eyes and clothing. Wash thoroughl eating and drinking, chewing gum, using tobacco o	
TSCA Section 12(b) Export	Notification (40 CFR 707, Sub	pt. D)		
CERCLA Hazardous Substa	nce List (40 CFR 302.4)			
	utyl ether (CAS 112-34-5) Ilated Substances (29 CFR 19	Listed. 1 0.1001-1050)		
Superfund Amendments and Re	authorization Act of 1986 (SA	RA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely hazardous substance	No			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Diethylene glycol monobu	utyl ether	112-34-5	5 - 10	
Diethylene glycol monobu	112 Hazardous Air Pollutant utyl ether (CAS 112-34-5) 112(r) Accidental Release Pr	、	R 68.130)	
Safe Drinking Water Act (SDWA)	Not regulated.			
Food and Drug Administration (FDA)	Not regulated.			
JS 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 - California Proposit	ion 65 - Carcinogens & Repro	oductive Toxicity	(CRT): Listed substance	
Not listed. US - Illinois Chemical S	afety Act: Listed substance			
, , ,	nobutyl ether (CAS 112-34-5) porting List: Reportable quan	Listed. tity (total mass in	to atmosphere)	
	nobutyl ether (CAS 112-34-5) oorting: Listed substance	100 LBS		
, ,	nobutyl ether (CAS 112-34-5) Substances: Listed substanc	Listed. e		
	nobutyl ether (CAS 112-34-5) ening Levels: Listed substan	Listed. ce		
	nobutyl ether (CAS 112-34-5) ediamine tetraacetate (CAS	Listed. Listed.		

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Diethylene glycol monobutyl ether (CAS 112-34-5) Listed. US. Rhode Island RTK

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

Inventory name

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Country(s) or region

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

On inventory (yes/no)*

Yes

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

16. Other Information		
LEGEND	HEALTH / 3	
Severe4Serious3Moderate2Slight1Minimal0	FLAMMABILITY 1 PHYSICAL HAZARD 1 PERSONAL X	
Disclaimer	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 date	7-January-2019	
Further information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.	
Other information	This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	
Prepared by	Nu-Calgon Technical Service Phone: (314) 469-7000	