



Air Conditioning Products
Tools, Equipment & Refrigerant

SAFETY DATA SHEET

Foaming A/C Evaporator Cleaner (aerosol)

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Foaming A/C Evaporator Cleaner (aerosol)
Common Name: Foaming A/C Cleaner
SDS Number: 5914
Revision Date: 1/28/2016
Revision Date: 03-Jan-2019
Version: 001
Product Use: A/C Cleaner

Supplier Details: FJC
101 Commercial Drive
Mooresville, NC 28115

Website: www.fjcinc.com

Phone: 704.664.3587

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

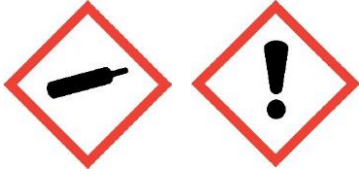
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Physical, Gases under Pressure, Liquefied Gas
Health, Serious Eye Damage / Eye irritation, 2 A
Health, Skin corrosion / irritation, 2

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H280 – Contains gas under pressure; may explode if heated.

H319 – Causes serious eye irritation.

H315 – Causes skin irritation.

GHS Precautionary Statements:

P251 – Pressurized container: Do not pierce or burn, even after use.

P270 – Do not eat, drink or smoke when using this product.

P281 – Use personal protective equipment as required.

P302+350 – IF ON SKIN: Gently wash with soap and water.

P305+351+338 – IF IN EYES: Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

P332+313 – If skin irritation occurs: Get medical advice / attention.

P410+412 – Protect from sunlight. Do not expose to temperatures exceeding 50 degrees c / 122 degrees F

Hazards not otherwise classified (HNOC) or not covered by GHS

Target Organs:	By ingestion: Causes skin and Eye irritation
Inhalation:	Do Not breathe fumes. If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact:	Prolonged or repeated contact can cause irritation and defatting of the skin. Wash thoroughly after handling.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists: Get medical attention / advice.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:		
CAS #	%	Chemical Name
7732-18-5	85-95%	Water
68476-86-8	3-8%	Propane / Isobutane
111-90-0	2%	Ethanol, 2- (2-ethoxyethoxy)-
111-76-2	2%	2-Butoxyethano

4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Get medical attention immediately.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Ingestion: Do not induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Flammability: This product is not flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3 (c) (6).

Flash Point: None

Auto ignition Temp: None

LEL: ND

UEL: ND

Use extinguishing agents appropriate for surrounding fire.

Products of combustion: None

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode.

Protection of Fire Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions:

Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up:

Dike area where spills are to be contained. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

7 HANDLING AND STORAGE

Handling precautions: Use with adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. Do not expose aerosol containers to heat or flame. Do not incinerate container. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions see the product label.

Storage Requirements: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 degrees F / 49 degrees C to prevent cans from rupturing.

Aerosol Storage Level: 1

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Personal Protective Equipment:

Respiratory Protection: None are required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use NIOSH-approved self-contained positive pressure respirators in low circulation areas and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Eye / face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or rubber. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Material	CAS #	EINECS #	TWA (OSHA)	TLV (ACGIH)	
2 (2-Ethoxyethoxy) Ethanol	111-90-0	203-919-7	None Known	25 ppm	
2 – Butoxyethanol	111-76-2		25 ppm 240 mg/m3	20 ppm	
Material	CAS #	EINECS #	Ceiling	STEL (OSHA/ACCGIH)	HAP
2 (2-Ethoxyethoxy) Ethanol	111-90-0	203-919-7	None Known	None Known	Yes
2 – Butoxyethanol	111-76-2		None Known	None Known	No

Each component showing “YES” under “HAP” is an EPA Hazardous Air Pollutant.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear
Physical State:	Liquid
Spec Grav./Density:	0.9957
Boiling Point:	212F / 100C
Odor:	Ammonia
Solubility:	Soluble in water.
Odor Threshold:	ND
Vapor Density:	>1 (air = 1)
Freezing/Melting Pt.:	30F / -1C
VOC:	Wt. %: 6.4 G/L: 69 Lbs./gal 0.64
Vapor Pressure:	ND
pH:	10

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Keep away from heat, direct sunlight, open flames or sparks. Dropping of containers may cause bursting.
Materials to Avoid:	Strong oxidizers
Hazardous Decomposition:	Carbon monoxide, carbon dioxide
Hazardous Polymerization:	Will not occur

11 TOXICOLOGICAL INFORMATION

Acute Hazards:

EYE & SKIN CONTACT:

Primary irritation to skin: defatting and dermatitis.

Absorption thru skin increases exposure.

Primary irritation to eyes, redness, tearing, blurred vision.

Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

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SWALLOWING:

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS / CONDITIONS AGGRAVATED

Medical conditions aggravated by exposure:

Pre-existing conditions of any target organs mentioned in this document can be aggravated by overexposure by route of entry to components of this product. Persons with these disorders should avoid use of this product.

CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA OR ACGIH, as of this date greater or equal to 0.1%. Absorption thru skin may be harmful.

Target organs: May cause damage to target organs, based on animal data.

Irritancy: Irritating to contaminated tissue.

Sensitization: No component is known as a sensitizer.

Mutagenicity: No known reports of Mutagenicity effects in humans.

Embryo toxicity: No known reports of embryo toxic effects in humans.

Teratogenicity: No known reports of teratogenic effects in humans.

Reproductive Toxicity: No known reports of reproductive effects in humans.

MAMMALIAN TOXICITY INFORMATION:

	CAS#	EINECS#	LOWEST KNOWN LETHAL DOSE DATA Lowest Known LD50 (oral)
2 (2- Ethoxyethoxy) ethanol	111-90-0	203-919-7	4300.0 mg/kg (Guinea Pigs)
2- Butoxyethanol	111-76-2		1519 mg/kg
2 (2-Ethoxyethoxy) ethanol	111-90-0	203-919-7	16500.0 (Rabbits)
2- Butoxyethanol	111-76-2		841 mg/kg

12 ECOLOGICAL INFORMATION

Ecological studies have not been conducted for this product. The components of the product are as follows:

All work practices must be aimed at eliminating environmental contamination.

EFFECT OF MATERIAL ON PLANTS AND ANIMALS

This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological information) for further data on the effects of this product's components on test animals.

EFFECT OF MATERIAL ON AQUATIC LIFE:

No aquatic environmental information is available on this product.

MOBILITY IN SOIL:

This material is a mobile liquid.

DEGRADABILITY:

This product is completely biodegradable.

ACCUMULATION:

This product does not acculate or bio magnify in the environment.

13 DISPOSAL CONSIDERATIONS

Waste Classification: The dispensed liquid product is not a RCRA hazardous waste.
(See 40 CFR part 261.20-261.33)

Aerosol containers should be fully emptied and depressurized before disposal. Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

14 TRANSPORT INFORMATION

UN1950, Aerosols, non-flammable, (each not exceeding 1 L capacity), 2.2, (6.1), PGIII

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15 REGULATORY INFORMATION

Component (CAS#) (%) – CODES

Water (7732-18-5) (85-95%) TSCA

Propane / Isobutane (68476-86-8) (3-8%) TSCA

Ethanol, 2-(2-ethoxyethoxy)- (111-90-0) (2%) HAP, TSCA, TXAIR

2-Butoxyethanol (111-76-2) (2%) HAP, MASS, OSHAWAC, PA TSCA, TXAIR

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

HAP = Hazardous Air Pollutants

TXAIR = TX Air Contaminants with Health Effects Screening Level

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

Fire Hazard	No
Reactive Hazard	No
Release of Pressure	Yes
Acute Health Hazard	No
Chronic Health Hazard	No

Section 313 Toxic Chemicals: None

Clean Air Act: Section 112 Hazardous Air Pollutants (HAPS): 2(2-ethoxyethoxy) ethanol

OSHA: This product is regulated by the Hazardous Communications Standard.

U.S. State Regulations: Consumer Products VOC regulations: In States with Consumer Products VOC regulations, this product is compliant as a Glass Cleaner.

State Right to Know:

New Jersey	111-76-2, 68476-86-8, 1336-21-6
Pennsylvania	111-76-2, 68476-86-8, 1336-21-6
Massachusetts	111-76-2, 68476-86-8, 1336-21-6

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Rhode Island	111-76-2, 68476-86-8, 1336-21-6
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Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, D1A, D2A, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4 (1) of the RoHS Directive.

Additional Regulatory Information: None

16 OTHER INFORMATION

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 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.

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