

Enviro-Safe Air Enhancer

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Enviro-Safe Air Enhancer
SDS Number: 2000
Revision Date: 3/31/2020
Version: 2.0
Product Description: Mixture
Product Use: A/C Performance Booster

Supplier Details: Enviro-Safe Refrigerants, Inc.
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2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
 Physical, Flammable Gases, 1
 Physical, Gases Under Pressure, Compressed Gas

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H220 - Extremely flammable gas
 H280 - Contains gas under pressure; may explode if heated
 OSHA-H01- May displace oxygen and cause rapid suffocation

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381 - In case of leakage, eliminate all ignition sources.
 P403 - Store in a well-ventilated place.
 P410 + P403 - Protect from sunlight. Store in a well-ventilated place.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
68476-85-7	97-99%	Petroleum gases, liquefied
64742-54-7	1-3%	Distillates, petroleum, hydrotreated heavy paraffinic

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4 FIRST AID MEASURES

- Inhalation:** If symptoms develop, move to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, seek medical attention.
- Skin Contact:** If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention.
- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- Ingestion:** Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Injuries: Gas can be toxic as simple asphyxiant by displacing oxygen from the air. Refrigerated liquefied gas. Contact with product may cause cold burns or frostbite. May cause cancer.

Symptoms/Injuries After Inhalation: Gas can be toxic as a simple asphyxiant by displacing oxygen from the air.

Symptoms/Injuries After Skin Contact: May cause frostbite. May cause skin irritation.

Symptoms/Injuries After Eye Contact: Contact with the liquefied gas causes frostbite.

Symptoms/Injuries After Ingestion: Unlikely route of exposure for a gas.

Chronic Symptoms: May cause cancer.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

5 FIRE FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry powder, carbon dioxide, alcohol-resistant foam.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy water stream may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable gas.

Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risks of burns and injuries.

Reactivity: Contains gas under pressure; may explode if heated. react with strong oxidants causing fire and explosion hazard.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution fighting any chemical fire.

Firefighting Instructions: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Refer to Section 9 for flammability properties.

6 ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray). Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. No smoking.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip clean up crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

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6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

7 HANDLING AND STORAGE

Handling Precautions:	<p>7.1. Precautions for Safe Handling Precautions for Safe Handling: Personnel should be trained to regularly inspect equipment such as pumps, hoses, and valves. Do not breathe gas. Ensure there is adequate ventilation. Close valve after each use and when empty. Open valve slowly to avoid pressure shock.</p>
Storage Requirements:	<p>7.2. Conditions for Safe Storage, Including Any Incompatibilities Technical Measures: Comply with applicable regulations. Keep at temperatures below 52 °C/125 °F. Storage Conditions: Store in a dry, cool and well-ventilated place. Keep in fireproof place. Store locked up. Incompatible Products: Heat sources. Oxidizers. Special Rules on Packaging: Store in containers fitted with suitable release valve.</p> <p>7.3. Specific End Use(s) A/C Performance Booster.</p>

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Gas detectors should be used when toxic gases may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
Personal Protective Equipment:	<p>HMIS PP, J Splash Goggles, Gloves, Apron, Dust and Vapor Resp Gas mask. Protective goggles. Gloves. Protective clothing.</p> <p>Materials for Protective Clothing: Chemically resistant materials and fabrics. Hand Protection: Wear working gloves when handling gas containers. Eye Protection: Safety glasses. Skin and Body Protection: Wear suitable protective clothing. Respiratory Protection: Use a NIOSH-approved self-contained breathing apparatus in oxygen deficient atmospheres. Thermal Hazard Protection: Wear cold insulating gloves.</p>

Petroleum gases, liquefied cas#:(68476-85-7) [97-99%]

USA ACGIH - ACGIH TWA (ppm): 1000ppm
USA NIOSH - NIOSH REL (TWA) (mg/m3): 1800mg/m3
USA NIOSH - NIOSH REL (TWA) (ppm): 1000ppm
USA IDLH - US IDLH (ppm): 2100ppm (10% LEL)
USA OSHA - OSHA PEL (TWA) (mg/m3): 1800mg/m3
USA OSHA - OSHA PEL (TWA) (ppm): 1000ppm

Distillates, petroleum, hydrotreated heavy paraffinic (34742-54-7): No information available

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear			
Physical State:	Gas	Odor:		N/A
Odor Threshold:	N/A	Solubility:		N/A
Specific Gravity or Density:	N/A	Freezing or Melting Point:		N/A
Viscosity:	N/A	Flash Point:		N/A
Boiling Point:	N/A	Vapor Density:		N/A
Partition Coefficient: Vapor Pressure:	N/A	Autoignition Temperature:		N/A
		Upper Flammability Limit and Lower Flammability Limit:		N/A
Potentia Hydrogenii:	N/A			
Evaporation Rate:	N/A			

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Decompression Temperature: N/A

10	STABILITY AND REACTIVITY
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Reactivity: Contains gas under pressure; may explode if heated. Reacts with oxidants causing fire and explosion hazard.

Chemical Stability: Stable under recommended handling and storage conditions (see Section 7).

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks.

Materials to Avoid: Heat. Strong Oxidizing Agents.

Hazardous Decomposition: Carbon oxides (CO, CO2).

Hazardous Polymerization: Hazardous polymerization will not occur.

11	TOXICOLOGICAL INFORMATION
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Petroleum gases, liquefied cas#:(68476-85-7) [97-99%]

Information on Toxicology

Acute Toxicity: Not classified
 LCSO Inhalation Rat: 658mg/114h
 Petroleum Oil: > 2000 mg/kg
 LD 50 Oral Rat: > 2000 mg/kg
 LOSO Dermal Rat: > 2000 mg/kg
 LCSO Inhalation Rat: > 2000 mg/kg

Distillates, petroleum, hydrotreated heavy paraffinic (34742-54-7)

Information on Toxicology

Acute Toxicity: Not classified
 LOSO Oral Rat: > 15 g/kg

Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: May cause cancer.
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified
Chronic Symptoms: May cause cancer.

12	ECOLOGICAL INFORMATION
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Petroleum gases, liquefied cas#:(68476-85-7) [97-99%]

Information on Ecology

Bioaccumulative Potential:
 Log Pow: 2.3

Distillates, petroleum, hydrotreated heavy paraffinic (34742-54-7)

Information on Ecology

Toxicity-
 LC50 Fish 1: > 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
 EC50 Daphnia 1: > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and Degradability: No additional information available
 Bioaccumulative Potential ---

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Mobility in Soil: No additional information available

Other Adverse Effects: No additional information available

13	DISPOSAL CONSIDERATIONS
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Information on Disposal

Waste Treatment Methods

Waste Disposal Recommendation: Dispose of waste in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Empty product containers may contain hazardous residue. Do not reuse empty containers without commercial cleaning or reconditioning.

14	TRANSPORT INFORMATION
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14.1. In Accordance with DOT

Consumer Commodity, ORM-D

14.2. In Accordance with IMDG

Proper Shipping Name: PETROLEUM GASES, LIQUEFIED

Hazard Class: 2.1

Identification Number: UN1075

Label Codes: 2.1

EmS-No. (Fire): F-D

EmS-No. (Spillage): S-U

14.3. In Accordance with IATA

Proper Shipping Name: PETROLEUM GASES, LIQUEFIED

Identification Number: UN1075

Hazard Class: 2

Label Codes: 2.1

ERG Code (IATA): IOL

15	REGULATORY INFORMATION
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[%] RQ (CAS#) Substance - Reg Codes

[97-99%] Petroleum gases, liquefied (68476-85-7) MASS, OSHAWAC, PA, TSCA, TXAIR

[1-3%] Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7) NJHS, TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

MASS= MA Massachusetts Hazardous Substances List

OSHA= OSHA Workplace Air Contaminants

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

TSCA= Toxic Substances Control Act

TXAIR= TX Air Contaminants with Health Effects Screening Level

NJHS= NJ Right-to-Know Hazardous Substances

16	OTHER INFORMATION
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