

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Enviro-Safe Air Enhancer

### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** A/C performance booster

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Enviro-Safe Refrigerants, Inc.

400 Margaret Street

Pekin, IL 61554

309-346-1110

### 1.4. Emergency Telephone Number

**Emergency Number** : 1-800-424-9300

CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

Simple Asphy

Flam. Gas 1 H220

Liquefied gas H280

Carc. 1B H350

Full text of H-phrases: see section 16

### 2.2. Label Elements

#### GHS-US Labeling

#### Hazard Pictograms (GHS-US)



#### Signal Word (GHS-US)

: Danger

#### Hazard Statements (GHS-US)

: H220 - Extremely flammable gas.  
 H280 - Contains gas under pressure; may explode if heated.  
 H350 - May cause cancer.  
 H380 - May displace oxygen and cause rapid suffocation.

#### Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.  
 P280 - Wear protective gloves, protective clothing, and eye protection.  
 P308+P313 - If exposed or concerned: Get medical advice/attention.  
 P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
 P381 - Eliminate all ignition sources if safe to do so.  
 P403 - Store in a well-ventilated place.  
 P405 - Store locked up.  
 P410+P403 - Protect from sunlight. Store in a well-ventilated place.  
 P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Contact with the product may cause cold burns or frostbite.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

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## 3.2. Mixture

| Name  | Product Identifier  | %  | Classification (GHS-US)                                  |
|---|---------------------|----|--|
| Petroleum gases, liquefied                            | (CAS No) 68476-85-7 | 99 | Simple Asphy<br>Flam. Gas 1, H220<br>Liquefied gas, H280 |
| Distillates, petroleum, hydrotreated heavy paraffinic | (CAS No) 64742-54-7 | 3  | Carc. 1B, H350<br>Asp. Tox. 1, H304                      |

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 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 (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Immediately call a POISON CENTER or doctor/physician.

**First-aid Measures After 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.

**First-aid Measures After 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.

**First-aid Measures After Ingestion:** Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** Gas can be toxic as a 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:** Ingestion is an 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.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water 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 risk of burns and injuries.

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

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when 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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Use special care to avoid static electric charges. Keep away from open flames, hot surfaces and sources of ignition. No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe gas.

#### 6.1.1. For Non-emergency Personnel

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

**Emergency Procedures:** Evacuate unnecessary personnel. Eliminate ignition sources.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

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**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

## 6.2. Environmental Precautions

Avoid release to the environment.

## 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Stop leak without risks if possible. Do not take up in combustible material such as: saw dust or cellulosic material.

**Methods for Cleaning Up:** Contact competent authorities after a spill.

## 6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

## SECTION 7: HANDLING AND STORAGE

### 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.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling. 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.

### 7.3. Specific End Use(s)

A/C performance booster

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

| Petroleum gases, liquefied (68476-85-7) |                                      |                        |
|---|--------------------------------------|------------------------|
| USA NIOSH                               | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 1800 mg/m <sup>3</sup> |
| USA NIOSH                               | NIOSH REL (TWA) (ppm)                | 1000 ppm               |
| USA IDLH                                | US IDLH (ppm)                        | 2100 ppm (10% LEL)     |
| USA OSHA                                | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 1800 mg/m <sup>3</sup> |
| USA OSHA                                | OSHA PEL (TWA) (ppm)                 | 1000 ppm               |

### 8.2. Exposure Controls

#### Appropriate 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

: Gas mask. Protective goggles. Gloves. Protective clothing.



#### 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 respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

#### Thermal Hazard Protection

: Wear cold insulating gloves.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|  |                     |
|--|---------------------|
| Physical State                         | : Gas               |
| Appearance                             | : No data available |
| Odor                                   | : No data available |
| Odor Threshold                         | : No data available |
| pH                                     | : No data available |
| Evaporation Rate                       | : No data available |
| Melting Point                          | : No data available |
| Freezing Point                         | : No data available |
| Boiling Point                          | : No data available |
| Flash Point                            | : No data available |
| Auto-ignition Temperature              | : No data available |
| Decomposition Temperature              | : No data available |
| Flammability (solid, gas)              | : No data available |
| Vapor Pressure                         | : No data available |
| Relative Vapor Density at 20 °C        | : No data available |
| Relative Density                       | : No data available |
| Solubility                             | : No data available |
| Partition Coefficient: N-Octanol/Water | : No data available |
| Viscosity                              | : No data available |

### 9.2. Other Information

Gas Group : Liquefied gas

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Contains gas under pressure; may explode if heated. Reacts with strong oxidants causing fire and explosion hazard.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks.
- 10.5. Incompatible Materials:** Heat. Strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

**Acute Toxicity:** Not classified

|   |             |
|---|-------------|
| <b>Petroleum gases, liquefied (68476-85-7)</b>                            |             |
| LC50 Inhalation Rat   | 658 mg/l/4h |
| <b>Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)</b> |             |
| LD50 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

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

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**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:** Ingestion is an unlikely route of exposure for a gas.

**Chronic Symptoms:** May cause cancer.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

| Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7) |  |
|--|--|
| 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)       |

**12.2. Persistence and Degradability** No additional information available

### 12.3. Bioaccumulative Potential

| Petroleum gases, liquefied (68476-85-7) |     |
|---|-----|
| Log Pow                                 | 2.3 |

**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

No additional information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

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

## SECTION 14: TRANSPORT INFORMATION

### 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) : 10L



## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

| Enviro-Safe Air Enhancer  |  |
|---|--|
| SARA Section 311/312 Hazard Classes                                       | Immediate (acute) health hazard<br>Fire hazard<br>Sudden release of pressure hazard<br>Delayed (chronic) health hazard |
| Petroleum gases, liquefied (68476-85-7)                                   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)        |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |

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## 15.2 US State Regulations

### Petroleum gases, liquefied (68476-85-7)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 07/01/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

|               |  |
|---------------|--|
| Asp. Tox. 1   | Aspiration hazard Category 1                       |
| Carc. 1B      | Carcinogenicity Category 1B                        |
| Flam. Gas 1   | Flammable gases Category 1                         |
| Liquefied gas | Gases under pressure Liquefied gas                 |
| Simple Asphy  | Simple Asphyxiant                                  |
| H220          | Extremely flammable gas                            |
| H280          | Contains gas under pressure; may explode if heated |
| H304          | May be fatal if swallowed and enters airways       |
| H350          | May cause cancer                                   |
| H380          | May displace oxygen and cause rapid suffocation    |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)