

## Enviro-Safe Green Energy XL4

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Enviro-Safe Green Energy XL4  
**SDS Number:** 2115  
**Revision Date:** 10/9/2024  
**Version:** 3.5  
**Product Use:** A/C performance booster  
  
**Supplier Details:** Enviro-Safe Refrigerants, Inc.  
 400 Hanna Dr.  
 Pekin, IL 61554  
  
**Phone:** 309-346-1110  
**Fax:** 309-346-1237  
**Email:** info@es-refrigerants.com  
**Internet:** www.es-refrigerants.com  
**Emergency:** CHEMTREC 1-800-424-9300

### 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:

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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.

#### Hazards not Otherwise Classified (HNOC) or not Covered by GHS

**Other Hazards:** Contact with the product may cause cold burns or frostbite.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Ingredients

CAS#	%	Chemical Name
68476-85-7		Petroleum gases, liquefied
64742-54-7		Distillates, petroleum, hydrotreated heavy paraffinic

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### 4 FIRST AID MEASURES

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

### 5 FIRE FIGHTING MEASURES

- Lower Explosive Limit:** 1.9%  
**Upper Explosive Limit:** 8.5%
- 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.

### 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 clean up crew with proper protection.  
**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.
- 6.2. Environmental Precautions**  
 Avoid release the the environment.
- 6.3. Methods and Material for Containment and Cleaning Up**  
**For Containment:** Stop leak without tisks if possible. Do not take up incombustible 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 Heading 8. Exposure controls and personal protection. For further information refer to section 13.

### 7 HANDLING AND STORAGE

- Handling Precautions:**
- 7.1. Precautions for Safe Handling  
 Precautions for Safe Handling: Personnel should be trained to regularly inspect equipment such as pumps, hoses,

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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.

**Storage Requirements:**

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.  
 Specific Rules on Packaging: Store in containers fitted with suitable release valve.  
 7.3. Specific End Use(s): A/C performance booster.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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**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:** Petroleum gases, liquefied cas#:(68476-85-7) []

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 self-contained breathing apparatus in oxygen deficient atmospheres.

Thermal hazard Protection: Wear cold insulating gloves.

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

- 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

9	PHYSICAL AND CHEMICAL PROPERTIES
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<b>Appearance:</b>	Clear, colorless	<b>Odor:</b>	No data available
<b>Physical State:</b>	Gas	<b>Solubility:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Freezing or Melting Point:</b>	-166°C (-267.1°F)
<b>Specific Gravity or Density:</b>	.540	<b>Flash Point:</b>	-104°C (-155°F)
<b>Viscosity:</b>	No data available	<b>Vapor Density:</b>	No data available
<b>Boiling Point:</b>	-34.7°C (30.46°F)	<b>Autoignition Temperature:</b>	862.8°C (1585°F)
<b>Partition Coefficient:</b>	<1	<b>UFL / LFL:</b>	8.5%/1.9%
<b>Vapor Pressure:</b>	70 @ 21.1°C (70°F)		
<b>Potentia Hydrogenii:</b>	No data available		
<b>Evaporation Rate:</b>	Rapid		
<b>Decompression Temperature:</b>	No data available		

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### 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	Contains gas under pressure; may explode if heated. Reacts with strong oxidants causing fire and explosion hazard.
<b>Chemical Stability:</b>	Stable under recommended handling and storage conditions (see Section 7).
<b>Conditions to Avoid Identification:</b>	Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks.
<b>Materials to Avoid Identification:</b>	Heat. Strong oxidizers.
<b>Hazardous Decomposition:</b>	Carbon oxides (CO, CO2).
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.

### 11 TOXICOLOGICAL INFORMATION

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

Information on Toxicology

Acute Toxicity: Not classified  
 LC50 Inhalation Rat: 658mg/l/4h  
 Petroleum Oil: > 2000 mg/kg  
 LD 50 Oral Rat: > 2000 mg/kg  
 LD50 Dermal Rat: > 2000 mg/kg  
 LC50 Inhalation Rat: > 2000 mg/kg

Skin Corrosion/Irritation: Not classified  
 Serious Eye Damage/Irritation: Not classified  
 Respiratory or Skin Sensitiation: Not classified  
 Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified  
 Reproductive Toxicity: Not classified  
 Specific Target Organ Toxicity (Single Exposure): Not classified  
 Specific Target Organ Toxicity (Repeated Exposure): Not classified  
 Aspiration Hazard: Not classified

### 12 ECOLOGICAL INFORMATION

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

Information on Ecology

Toxicity: No additional information  
 Persistence and Degradability: No additional information available  
 Bioaccumulative Potential ---  
 Enviro-Safe Oil Charge 3  
 Log Pow: < 1  
 Petroleum gases, liquefied (68476-85-7)  
 Log Pow: 2.3  
 Mobility in Soil: No additional information available  
 Other Adverse Effects: No additional information available

### 13 DISPOSAL CONSIDERATIONS

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

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.

## Enviro-Safe Green Energy XL4

**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



**15 REGULATORY INFORMATION**

[%] RQ (CAS#) Substance - Reg Codes  
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 [--%] Petroleum gases, liquefied (68476-85-7) MASS, OSHAWAC, PA, TSCA, TSCAACTV, TXAIR

[--%] Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7) NJHS, TSCA, TSCAACTV  
 This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend  
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 MASS = MA Massachusetts Hazardous Substances List  
 NJHS = NJ Right-to-Know Hazardous Substances  
 OSHAWAC = OSHA Workplace Air Contaminants  
 PA = PA Right-To-Know List of Hazardous Substances  
 TSCA = Toxic Substances Control Act  
 TSCAACTV = TSCA Active Chemicals  
 TXAIR = TX Air Contaminants with Health Effects Screening Level

**16 OTHER INFORMATION**

Disclaimer: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

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