

## Enviro-Safe Green Gas

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Enviro-Safe Green Gas  
**SDS Number:** 1105  
**Revision Date:** 10/9/2024  
**Version:** 3.5  
**Product Description:** Propellant for Air Soft Guns  
  
**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, Flammable Liquids, 3  
 Physical, Gases Under Pressure, Compressed Gas  
 Health, Skin corrosion/irritation, 2  
 Health, Respiratory or skin sensitization, 1 Skin  
 Environmental, Hazards to the aquatic environment - Chronic, 1

#### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **DANGER**

##### GHS Hazard Pictograms:



##### GHS Hazard Statements:

H220 - Extremely flammable gas  
 H226 - Flammable liquid and vapour  
 H280 - Contains gas under pressure; may explode if heated  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H410 - Very toxic to aquatic life with long lasting effects  
 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.  
 P233 - Keep container tightly closed.  
 P240 - Ground/bond container and receiving equipment.  
 P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 - Wash skin thoroughly after handling.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P321 - Specific treatment (see supplemental first aid instructions on this label).  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.

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- P362 - Take off contaminated clothing and wash before reuse.
- P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
- P381 - In case of leakage, eliminate all ignition sources.
- P391 - Collect spillage.
- P403 - Store in a well-ventilated place.
- P403 + P235 - Store in a well-ventilated place. Keep cool.
- P410 + P403 - Protect from sunlight. Store in a well-ventilated place.
- P501 - Dispose of contents/ container to an approved waste disposal plant.

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

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients

CAS#	%	Chemical Name
138-86-3		Proprietary
68476-85-7		Petroleum gases, liquefied

### 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 a simple asphyxiant by displacing oxygen from the air. Refrigerated liquefied gas. Contact with product may cause cold burns or frostbite.

**Symptoms/Injuries After Ingestion:** Ingestion is an unlikely route of exposure for gas.

**Symptoms/Injuries After Inhalation:** Asphyxiant gas.

**Symptoms/Injuries After Skin Contact:** May cause frostbite.

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

**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 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 oxidants causing fire/explosion hazard.

**5.3. Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

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**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 equipment, including respiratory protection.

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### 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.

##### 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 to the environment.

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

**For Containment:** Stop leak if safe to do so. 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 Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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### 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, 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. Keep at temperatures below 52C/125F.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep in fireproof place. Store locked up.

Incompatible Products: Heat sources. Oxidizers.

##### 7.3. Specific End Use(s): propellant for airsoft guns.

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Controls:

Appropriate Engineering Controls: Alarm 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:

Proprietary cas#:(138-86-3)

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested:Camatril (KCL 730 / Aldrich Z677442, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 30 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation

## Enviro-Safe Green Gas

is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:** Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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.

Proprietary cas#:(138-86-3)

Components with workplace control parameters

TWA 30 ppm USA. Workplace Environmental Exposure Levels (WEEL)

Petroleum gases, liquefied (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

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### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, colorless gas	<b>Odor:</b>	Odor added
<b>Physical State:</b>	Gas	<b>Solubility:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Freezing or Melting Point:</b>	- 187.22 °C ( - 305 °F)
<b>Specific Gravity or Density:</b>	0.5066 (water=1) / 0.5066 (air = 1)	<b>Flash Point:</b>	No data available
<b>Viscosity:</b>	No data available	<b>Vapor Density:</b>	1.52 (@ 20 °C)
<b>Boiling Point:</b>	- 42.5 °C ( - 44.5 °F)	<b>Autoignition Temperature:</b>	467.22 °C (873 °F)
<b>Partition Coefficient:</b>	< 1	<b>UFL / LFL:</b>	9.6 % / 2.15 %
<b>Vapor Pressure:</b>	482.63 kPa (70 psi) @ 43.3 °C (110 °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 oxidants causing fire/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

Proprietary cas#:(138-86-3)

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 5,300 mg/kg

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: OS8100000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

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### ECOLOGICAL INFORMATION

Proprietary cas#:(138-86-3)

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 80 mg/l - 96.0 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 17 mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

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

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### DISPOSAL CONSIDERATIONS

Proprietary cas#:(138-86-3)

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

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.

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### TRANSPORT INFORMATION

**14.1. In Accordance with DOT**

**Proper Shipping Name:** ID8000, Consumer commodity, 9

**Marine Pollutant:** No

**DOT Special Provision:** DOT-SP 15593

**14.2. In Accordance with IMDG**

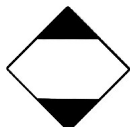
**Proper Shipping Name:** PETROLEUM GASES, LIQUEFIED

**Hazard Class:** 2

**Identification Number:** UN1075

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**DOT Special Provision:** DOT-SP 15593  
**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  
**DOT Special Provision:** DOT-SP 15593  
**Label Codes:** 2.1  
**ERG Code (IATA):** 10L



### 15 REGULATORY INFORMATION

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

[--%] Proprietary (138-86-3) TSCA, TSCAACTV

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