

Enviro-Safe 22a Replacement Can

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Enviro-Safe 22a Replacement Can
SDS Number: 1090
Revision Date: 3/17/2021
Version: 3.0
Product Description: Refrigerant

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:

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.
 CGA-MP01 - IF ACCIDENTLY INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

3 COMPOSITION/INFORMATION ON INGREDIENTS

	Chemical Ingredients:	
CAS#	%	Chemical Name:
68476-85-7		Petroleum gases, liquefied

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FIRST AID MEASURES

- Inhalation:** If symptoms develop, move to fresh air and keep at rest in a position comfortable for breathing. 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.

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FIRE FIGHTING MEASURES

Lower Explosive Limit: 2.15%

Upper Explosive Limit: 9.6%

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry powder, foam, carbon dioxide.

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: Highly flammable liquid and vapor. Vapors may travel to source of ignition and flash back.

Explosion Hazard: May form flammable/explosive vapor-air mixture.

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

5.3. Advice for Firefighters

Precautionary Measure Fire: Exercise caution when fighting any chemical fire.

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

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: 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.

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 foreproof place. Store locked up.
 Incompatible Products: Heat sources. Oxidizers.
 7.3. Specific End Use(s): Refrigerant

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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:

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 (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

Appearance:	Clear	Odor:	Odorless
Physical State:	Gas	Solubility:	No data available
Odor Threshold:	No data available	Freezing or Melting Point:	- 151.67 °C (305 °F)
Specific Gravity or Density:	0.5066 (water=1)	Flash Point:	No data available
Viscosity:	No data available	Vapor Density:	1.52
Boiling Point:	- 46.67 °C (52 °F)	Autoignition Temperature:	467.22 °C (873 °F)
Partition Coefficient:	No data available	Upper Flammability Limit and Lower Flammability Limit:	9.6 % / 2.15 %
Vapor Pressure:	861.8 kPa (125 psi) @22.1 °C (70 °F)		
Potentia Hydrogenii:	No data available		
Evaporation Rate:	No data available		
Decompression Temperature:	No data available		

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STABILITY AND REACTIVITY

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

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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

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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 ---

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

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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14	TRANSPORT INFORMATION
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14.1. In Accordance with DOT

Proper Shipping name: Consumer Commodity, ORM,D

DOT Special Provision: DOT-SP 15593

14.2. In Accordance with IMDG

Proper Shipping Name: PETROLEUM GASES, LIQUEFIED

Hazard Class: 2

Identification Number: UN1075

Label Codes: 2.1

Special Provision: DOT-SP 15593

EmS-No. (Fire): F-D

EmS-No. (Spillage): S-U

14.3. In Accordance with IATA

Proper Shipping Name: PETROLEUM GASES, LIQUEFIED

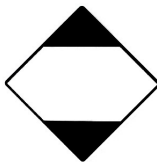
Identification Number: UN1075

Hazard Class: 2

Label Codes: 2.1

Special Provision: DOT-SP 15593

ERG Code (IATA): 10L



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

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

OSHA WAC = OSHA Workplace Air Contaminants

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

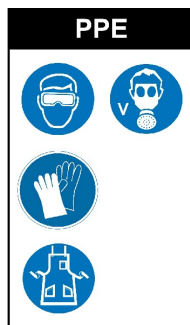
TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

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16	OTHER INFORMATION
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HMIS	
HEALTH	<input type="checkbox"/> <input type="checkbox"/>
FLAMMABILITY	<input type="checkbox"/>
PHYSICAL HAZARD	<input type="checkbox"/>
PERSONAL PROTECTION	<input type="checkbox"/> H



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