

Enviro-Safe 1234YF Oil Charge

1	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier: Enviro-Safe 1234YF Oil Charge
SDS Number: 2021
Revision Date: 10/8/2024
Version: 3.5
Product Description: Oil for 1234yf A/C systems

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

3	COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical Ingredients

CAS#	%	Chemical Name
68476-85-7		Petroleum gases, liquefied
8002-05-9		Petroleum oil

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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: Asphyxiant gas.
Symptoms/Injuries After Skin Contact: May cause frostbite.
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.
- 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 (CO₂).
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.

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.
- 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 without risks if possible. Do not take up in combustible material, such as saw dust.
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, 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.

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Storage Requirements: 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.
 7.3. Specific End Use(s)
 Oil for refrigerat A/C units

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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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 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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<p>Appearance: Clear, colorless</p> <p>Physical State: Gas</p> <p>Odor Threshold: No data available</p> <p>Specific Gravity or Density: 0.540</p> <p>Viscosity: No data available</p> <p>Boiling Point: - 34.67 °C (- 30.4 °F)</p> <p>Partition Coefficient: < 1</p> <p>Vapor Pressure: 70 (@ 21.1 °C)</p> <p>Potentia Hydrogenii: No data available</p> <p>Evaporation Rate: Rapid</p> <p>Decompression Temperature: No data available</p>	<p>Odor: No data available</p> <p>Solubility: No data available</p> <p>Freezing or Melting Point: - 166.1 °CV (- 267 °F)</p> <p>Flash Point: No data available</p> <p>Vapor Density: 1.76 (@ 20C)</p> <p>Autoignition Temperature: 862.78 °C (1581 °F)</p> <p>UFL / LFL: 8.5 % / 1.9 5</p>
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10	STABILITY AND REACTIVITY
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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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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.

14 TRANSPORT INFORMATION

14.1. In Accordance with DOT

Proper Shipping Name: Consumer Commodity, ORM-D

14.2. In Accordance with IMDG

Proper Shipping Name: Petroleum gases, liquefied

Hazard Class: 2

Identification Number: UN1075

Label Codes: 2.1

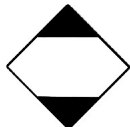
EmS-No. (Fire): F-D

EmS-No. (Spillage): S-U

14.3. In Accordance with IATA

Enviro-Safe 1234YF Oil Charge

Proper Shipping Name: Petroleum gases, liquefied
Identification Number: UN1075
Hazard Class: 2
Label Codes: 2.1
ERG Code (IATA): 10L



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REGULATORY INFORMATION

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

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

[--%] Petroleum oil (8002-05-9) MASS, PA, TSCA, TSCAACTV, TXHWL

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
 TXHWL = TX Hazardous Waste List

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OTHER INFORMATION

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