

Empack Spraytech Inc. 98 Walker Drive Brampton, Ontario, L6T 4H6 Canada 905-792-6571

CODE: EM-045929

Emzone 134a A/C Refrigerant Cylinder - 13.6 kg (30 lb) PRODUCT:

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Item Numbers..... FM-045929

Product Identity..... Emzone 134a A/C Refrigerant Cylinder - 13.6 kg (30 lb)

Empack Spraytech Inc. 98 Walker Drive Manufacturer.....

Brampton Ontario Canada L6T 4H6 905-792-6571

24 hour emergency telephone number..... In Canada: Call CANUTEC (613) 996-6666 - In The United States: Call CHEMTREC (800)

424-9300.

Refrigerant. 1,1,1,2 Tetrafluoroethane. Recommended Use..... Chemical Family.....

SECTION 02: HAZARDS IDENTIFICATION



Label Elements:

Signal Word..... WARNING.

Hazard Classification:

Physical Hazards..... Gases Under Pressure - Compressed gas.

Health Hazards..... Not Classified. Environmental Hazards..... Not Classified.

Hazard Statement..... H280:Contains gas under pressure; may explode if heated (C).

Precautionary Statements: Prevention..... None.

Response..... None Storage..... P410+P403:Protect from sunlight. Store in a well-ventilated place.

Disposal..... P501:Dispose of contents/container in accordance with local, regional, national, and/or

international regulations.

Hazard(s) not otherwise classified (HNOC) May be harmful if inhaled. Avoid inhalation of the product. Acts as a simple asphyxiant.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS		
HAZARDOUS INGREDIENTS	CAS#	WT. %

1,1,1,2 Tetrafluoroethane 811-97-2 80-100

SECTION 04: FIRST AID MEASURES

If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance. Inhalation.....

Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 Skin Contact..... minutes. Consult a poison control centre or physician immediately.

Eye Contact..... Check for and remove contact lenses. Immediately flush eyes with water for a minimum of

15 minutes keeping eyelids open. Consult a doctor if any irritation occurs. Ingestion is unlikely to occur. If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention. Ingestion.....

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct Most important symptoms/effects, acute .. contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain. and delayed

Provide general supportive measures and treat symptomatically. In case of shortness of Indication of immediate medical attention breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

and special treatment needed

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SECTION 05: FIRE FIGHTING MEASURES

General Fire Hazards.....Suitable Extinguishing Media..... Non-Flammable.

Dry chemical powder. Carbon dioxide. Foam, water spray or fog.

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Organic Compounds. Special Protective Equipment and

Firefighters must use standard protective equipment including flame retardant coat, helmet with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Precautions for Firefighters

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective **Equipment and Emergency Procedures**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid walking through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 08).

Methods and Materials for Containment .. and Cleaning Up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Environmental Precautions.....

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent

environmental contamination.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling.....

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Avoid breathing vapour of this product. Avoid contact with skin and eyes. Avoid prolonged

Conditions for Safe Storage including any Incompatibilities

exposure. Use in well-ventilated areas.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C (122°F). Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA ACG	SIH TLV STEL	PEL OSHA	A PEL STEL	REL NIOSH
1,1,1,2 Tetrafluoroethane	Not available	Not available	Not available	Not available	Not available

Appropriate Engineering Controls.....

Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.

Individual Protection Measures: Eye/Face Protection.....

Chemical splash goggles are recommended.

Skin Protection.....

Chemical resistant gloves are recommended. Avoid contact with the skin. Wear appropriate chemical resistant clothing.

Respiratory Protection..... Use approved NIOSH respirators for emergencies.

Thermal Hazards..... None Known.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. General Hygiene Considerations.....

Routinely wash work clothing and protective equipment prior to use.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance..... Clear/Transparent . Colorless gas. Odor..... Ether odor. Odor Threshold (ppm)..... N/A. Aerosol Vapour Pressure (psig, 21°C)..... 80-95 Specific Gravity 1.21 @4 deg. C. Vapour Density (Air=1)..... N/A. -26.4 °C (-14.8 °F). -101 °C Not applicable. Flashback.....

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Evaporation Rate (n-Butyl Acetate = 1)..... VOC Content..... N/A.

Solubility in water.....Auto Ignition Temperature (°C)..... Slightly soluble. 743. (Liquid). N/A.

Aerosol Flame Projection..... N/A. Viscosity.....

SECTION 10: STABILITY AND REACTIVITY

Product not reactive under normal conditions of use. Reactivity . Material is stable under normal conditions.

Chemical Stability..... Possibility of Hazardous Reactions..... Will not occur.

Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge.

Incompatible Materials..... Keep away from heat. Strong oxidizing agents. Hazardous Decomposition Products......

See Section 05.

SECTION 11: TOXICOLOGICAL INFORMATION

LD50 INGREDIENTS LC50

1,1,1,2 Tetrafluoroethane >500,000 ppm (Rat - 4hrs) Not available

Information on Likely Routes of Exposure:

Routes of entry - Inhalation..... Prolonged inhalation may be harmful. Routes of entry - Skin & Eye......Routes of entry - Ingestion..... Contact with liquid may cause frostbite.

Routes of entry - Skin Absorption..... No.

Symptoms Related to the Physical,

Chemical and Toxicological Characteristics

Acute Toxicity..... Inhalation: Vapors have a narcotic effect and may cause headache, fatique, dizziness and

nausea. Prolong inhalation may be harmful. Skin Corrosion/Irritation..... N/A.

Serious Eye Damage/Eye Irritation..... N/A. Respiratory or Skin Sensitization..... N/A.

Germ Cell Mutagenicity..... No data available to indicate product or any components present at greater than 0.1% are

mutagenic.

Carcinogenicity..... None of the ingredients are listed as possibly carcinogenic to humans by IARC or ACGIH. Reproductive Toxicity..... No information is available.

STOT - Single Exposure..... Not classified.

STOT - Repeated Exposure..... Not classified. Aspiration Hazard..... Not classified.

Chronic Effects..... May cause damage to the Central Nervous System through prolonged or repeated exposure. Symptoms of overexposure are dizziness, headache, tiredness, nausea,

unconsciousness.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment.

Persistence and degradabilityBioaccumulation Potential..... The product itself has not been tested. The product itself has not been tested. Mobility in Soil..... The product itself has not been tested.

Other Adverse Effects..... None Known.

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods..... This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Spilled material and water rinses are classified as chemical waste and must be disposed of in accordance with current local, provincial and federal regulations.

Contents under pressure. Do not puncture, incinerate or expose to heat, even when empty.

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SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)	UN3159, 1,1,1,2-TETRAFLUOROETHANE, Class 2.2.
IMDG (International- Marine)	UN3159, 1,1,1,2-TETRAFLUOROETHANE (REFRIGERANT GAS R 134a), Class 2.2.
IATA (International- Air)	UN3159, 1,1,1,2-TETRAFLUOROETHANE, Class 2.2.
DOT (US-Road)	UN3159 1 1 1 2-TETRAFI LIOROFTHANE Class 2 2

SECTION 15: REGULATORY INFORMATION

	WHMIS Classification. A: Compressed gas. D2B: Material causing other toxic Materials. All ingredients listed appear on the Domestic Substances List (DSL).
TSCA Inventory Status	All components are listed on TSCA
OSHA	This product is considered hazardous under the Federal OSHA hazard communication standard.
California Proposition 65	This product does not contain any chemical(s) known to the state of California to cause cancer or reproductivity toxicity.

SECTION 16: OTHER INFORMATION		
Disclaimer	The information contained herein is based on data considered accurate. No guarantee or warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. The SDS provider assumes no responsibility for personal injury or property damage to vendors or users or third parties, caused by the material. Such vendors or users assume all risks with the use of the material. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.	
Abbreviations	ACGIH: American Conference of Governmental Industrial Hygienists; CAS: Chemical Abstract Service; NIOSH: National Institute for Occupational Safety and Health, OSHA: Occupational Safety and Health Administration- USA; TSCA: Toxic Substances Control Act 1976-USA; PEL: Permissible Exposure Limit; REL: Recommended Exposure Limit; TLV: Threshold Limit Value; VOC: Volatile Organic Content; WHMIS: Workplace Hazardous Materials Information System STOT: Specific Target Organ Toxicity.	
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