

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

CODE: EM-045899

PRODUCT: Emzone 12A A/C Cool Refrigerant Cylinder - 5.4 kg

SECTION 01: IDENTIFICATION

Product Item Numbers..... EM-045899

Product Identity..... Emzone 12A A/C Cool Refrigerant Cylinder - 5.4 kg

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

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.

Recommended Use...... Environmental friendly refrigerant.

Chemical Family...... Hydrocarbon blend.

SECTION 02: HAZARD IDENTIFICATION



Label Elements:

Signal Word...... DANGER.

Hazard Classification:

Precautionary Statements:

Hazard(s) not otherwise classified (HNOC)

Physical Hazards...... Flammable Gas - Category 1A. Gases Under Pressure - Liquefied Gas.

heated (L).

No smoking.

of leakage, eliminate all ignition sources.

international regulations.

May displace oxygen and cause rapid suffocation. Contact with the product may cause

May displace oxygen a cold burns or frostbite.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS				
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %		
Isobutane	75-28-5	30-60		
Propane	74-98-6	30-60		

SECTION 04: FIRST-AID MEASURES

minutes. Consult a poison control centre or physician immediately.

15 minutes keeping eyelids open. Consult a doctor if any irritation occurs.

cause headache, fatique, dizziness and nausea. May cause redness and pain.





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SECTION 04: FIRST-AID MEASURES

Indication of immediate medical attention and special treatment needed

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

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SECTION 05: FIRE-FIGHTING MEASURES

General Fire Hazards..... Extremely flammable.

Specific Hazards Arising from the Chemical In case of fire, the following can be released: Carbon Oxides (CO, CO2), Other unidentified

Organic Compounds.

Special Protective Equipment and Precautions for Firefighters 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.

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 exposure. Use in well-ventilated areas.

Conditions for Safe Storage including any Incompatibilities

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	CGIH TLV STEL	OSH/ PEL	A PEL STEL	NIOSH REL
Isobutane	Not available	1,000 ppm	Not available	Not available	Not available
Propane	Not available	Not available	1,000 ppm	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. Chemical splash goggles are recommended. Chemical resistant gloves are recommended. Avoid contact with the skin. Wear appropriate chemical resistant clothing. Use approved NIOSH respirators for emergencies. 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. Routinely wash work clothing and protective equipment prior to use.			

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES



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Vapor Pressure (@ 20°C)..... 80-95 Specific Gravity 0.500-0.610. Vapour Density (Air=1)..... > 1. N/A. pH'..... -11.72. (Isobutane). Not available. -82.8. (Isobutane). N/A. Flashback..... Evaporation Rate (n-Butyl Acetate = 1)..... No data. VOC Content..... > 95 wt.%. Solubility in water..... Not soluble in water. Auto Ignition Temperature (°C)......Aerosol Flame Projection..... 460°C (860°F). (Isobutane). Lower Flammable Limit (% Vol)..... 1.8. (Isobutane). Upper Flammable Limit (% Vol)..... 8.8. (Isobutane). Coefficient of Water/Oil Distribution.......
Viscosity..... N/A.

SECTION 10: STABILITY AND REACTIVITY

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

658 mg/L (Rat - 4 hrs) Not available Isobutane 658 mg/L (Rat - 4 hrs) Not available Propane Information on Likely Routes of Exposure: Routes of entry - Inhalation.....Routes of entry - Skin & Eye..... Prolonged inhalation may be harmful. Contact with liquid may cause frostbite. Routes of entry - Ingestion..... Routes of entry - Skin Absorption..... No. Symptoms Related to the Physical, Chemical and Toxicological Characteristics Inhalation: Vapors have a narcotic effect and may cause headache, fatigue, dizziness and Acute Toxicity..... nausea. Prolong inhalation may be harmful. Skin Corrosion/Irritation..... N/A. N/A. Germ Cell Mutagenicity..... No data available to indicate product or any components present at greater than 0.1% are mutagenic. Carcinogenicity.....Reproductive Toxicity..... None of the ingredients are listed as possibly carcinogenic to humans by IARC or ACGIH. No information is available. STOT - Single Exposure..... Not classified.

LC50

LD50

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

INGREDIENTS

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. The product itself has not been tested. Persistence and degradability Bioaccumulation Potential..... The product itself has not been tested. Mobility in Soil..... The product itself has not been tested. Other Adverse Effects..... None Known.



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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)	UN1075, LIQUEFIED PETROLEUM GASES, Class 2.1.
IMDG (International- Marine)	UN1075, LIQUEFIED PETROLEUM GASES, Class 2.1.
IATA (International- Air)	UN1075, LIQUEFIED PETROLEUM GASES, Class 2.1.
DOT (US-Road)	UN1075, LIQUEFIED PETROLEUM GASES, Class 2.1.

SECTION 15: REGULATORY INFORMATION

(CEPA)

Refer to Section 2 for a WHMIS 2015 Classification for this product. All ingredients listed appear on the Domestic Substances List (DSL).

US Regulations

TSCA Inventory Status..... OSHA.....

All components are listed on TSCA

This product is considered hazardous under the Federal OSHA hazard communication standard.

This product does not contain any chemical(s) known to the state of California to cause California Proposition 65..... cancer or reproductivity toxicity.

SECTION 16: OTHER INFORMATION

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 Administration-USA; TSCA: Toxic Substances Control Act 1976-USA; PEL: Pérmissible 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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