

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: emzone 12A A/C Recharge Kit Including Hose with Gauge****CODE: EM-045885****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... emzone 12A A/C Recharge Kit Including Hose with Gauge
 Product Item Numbers..... EM-045885
 Manufacturer..... Empack Spraytech Inc.
 98 Walker Drive
 Brampton
 Ontario
 Canada
 L6T 4H6
 905-792-6571
 24 hour emergency telephone number..... CANUTEC: (613)-996-6666 collect.
 Recommended Use..... Environmental friendly Refrigerant.
 Consumer Commodity..... Yes.
 Hazard Ratings:
 HMIS..... Health: 1 Fire: 4 Reactivity: 0.
 NFPA Rating..... Health: 1 Fire: 4 Reactivity: 0.

SECTION 02: HAZARDS IDENTIFICATION

Emergency Overview..... Danger. Extremely flammable aerosol. Container is under pressure. Container may explode if heated. Do not puncture. Do not burn. Frostbite hazard . KEEP OUT OF REACH OF CHILDREN .
 Potential Health Effects:
 Skin Contact Contact with rapidly expanding gas may cause burns and frostbite. Skin may be flushed; as frostbite develops. Blisters may develop.
 Eye Contact..... May cause frostbite .
 Ingestion..... Harmful if swallowed.
 Inhalation..... Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Propane	74-98-6	30-60
Isobutane	75-28-5	30-60

SECTION 04: FIRST AID MEASURES

Eye Contact..... If eye tissue is frozen, seek medical attention immediately. 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.
 Skin Contact..... If frostbite has NOT occurred, immediately and thoroughly wash contaminated skin with soap and water. If frostbite has occurred, seek medical attention immediately; do NOT rub the affected areas or flush them with water. In order to prevent further tissue damage, do NOT attempt to remove frozen clothing from frostbitten areas.
 Ingestion..... If ingested, do not induce vomiting, get medical attention.
 Inhalation..... Move victim to fresh air. If breathing has stopped, give artificial respiration. If heartbeat absent, give external cardiac compression. Monitor breathing and pulse.
 Additional Information..... Note to the doctor; treat symptomatically.

SECTION 05: FIRE FIGHTING MEASURES

Flammability Class..... Extremely Flammable.
 Extinguishing Media..... Use extinguishing media appropriate for the surrounding fire. Small Fire: Use Dry Chemical. Large Fire: Use water spray or fog.
 Sensitivity to Mechanical Impact..... Not expected to be sensitive.
 Sensitivity to Static Discharge..... Not expected to be sensitive.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Spills and Leaks..... Put on appropriate personal protective equipment (see Section 08). Eliminate all sources of ignition and ventilate area. . Exhaust vapours outdoors.

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SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling..... Use with adequate ventilation. Keep away from heat, sparks, and open flames. Avoid breathing vapours or spray mists of this product. Contents under pressure. The pressure in sealed containers can increase under the influence of heat. Do not store in temperatures above 120°F (50°C).

Conditions for Safe Storage including any Incompatibilities

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm
Isobutane	800 ppm	1000 ppm	800 ppm	Not available	800 ppm (TWA)
Eye/Face Protection.....	Do not get in eyes. Wear safety glasses with side-shields. Wear appropriate eye protection to prevent eye contact with the liquid that could result in burns or tissue damage from frostbite .				
Skin Protection.....	Compressed gases may create low temperatures when they expand rapidly. Leaks and uses that allow rapid expansion may cause a frostbite hazard. Wear appropriate personal protective clothing to prevent the skin from becoming frozen .				
Respiratory Protection.....	Not required on a short-term basis or if exhaust ventilation is provided. Use approved NIOSH respirators for emergencies.				
Appropriate Engineering Controls.....	Good general ventilation should be used. Ventilation rates should be matched to conditions. Use local exhaust ventilation to maintain airborne levels below the Threshold Limit Value.				
Exposure Limits					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State..... Aerosol.
 Physical Appearance..... Colorless.
 Odour..... Amine Odour.
 Odour Threshold (ppm)..... Not available.
 pH..... Not applicable.
 Vapour Pressure (psig)..... 80- 95 .
 Vapour Density (Air=1)..... No data.
 Evaporation Rate (n-Butyl Acetate = 1)..... Not available.
 Initial Boiling Point/Boiling Range (°C)..... -11.7°C (10.9 °F).
 VOC Content..... > 95 wt%.
 Specific Gravity Not available.
 Specific Gravity (Aerosol)..... 0.890- 0.910 .
 Solubility in water..... Not soluble in water.
 Aerosol Flame Projection..... Not available .
 Auto Ignition Temperature (Propellant), °C... 460°C (860°F).
 Flashback..... No data .
 Flash Point (°C), Method..... -83.15°C/ -117.7°F.
 Lower Flammable Limit (% Vol)..... 1.8.
 Upper Flammable Limit (% Vol)..... 9.5.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability..... Stable at normal temperatures and pressures.
 Incompatible Materials..... Strong oxidizing agents. Strong acids.
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge. High temperatures may cause thermal decomposition.
 Hazardous Decomposition Products..... Thermal decomposition and burning may produce carbon monoxide and carbon dioxide.
 Possibility of Hazardous Reactions..... Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Propane	658 mg/L (Rat - 4hrs)	Not available
Isobutane	658 mg/L (Rat - 4hrs)	Not available
Route of Exposure.....	Skin contact, Eye contact, Inhalation and Ingestion.	

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SECTION 11: TOXICOLOGICAL INFORMATION

Effects of Acute Exposure..... Prolong or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Excessive inhalation of vapours may cause cardiac sensitization, which can be potentially fatal. May have an effect on your brain and impair your ability to think clearly.

Chronic Effects..... See effects of acute exposure .

Carcinogenicity..... Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.

Reproductive Toxicity..... No information is available, and no adverse effects are expected.

Teratogenicity..... No information is available, and no adverse effects are expected.

Germ Cell Mutagenicity..... No information is available, and no adverse effects are expected.

Toxicological Data

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... Complete information is not yet available.

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods..... Dispose in accordance with local, provincial and federal regulations.

SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)..... AEROSOLS, Class 2.1, UN1950.

DOT (US-Road)..... AEROSOLS, Class 2.1, UN1950, LTD QTY, Consumer commodity ORM-D.

IMDG (International- Marine)..... AEROSOLS, Class 2.1, UN1950.

IATA (International- Air)..... AEROSOLS, Class 2.1, UN1950, LTD QTY.

SECTION 15: REGULATORY INFORMATION

Canada Regulations:..... WHMIS Classification. A: Compressed gas. B5: Flammable Aerosol. CPR (Canadian Controlled Product Regulations): All ingredients are CEPA approved for import to Canada. This product has been classified in accordance with the hazard criteria of the CPR and this SDS contains all information required by CPR. IDL (Canadian Ingredient Disclosure List): Component(s) of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List (section 03).

US Regulations..... Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200). HMIS classification see section 01.

SECTION 16: OTHER INFORMATION

Disclaimer..... The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Empack assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees 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. THIS SDS IS VALID FOR THREE YEARS.

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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