

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: emzone 12A A/C All-In-One - 114g****CODE: EM-045857****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... emzone 12A A/C All-In-One - 114g
 Product Item Numbers..... EM-045857
 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..... Complete convenience with a 12A Refrigerant, UV Leak Detection Dye, Universal Oil
 Lubricant and O-Ring Conditioner .
 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. May cause skin and eye irritation. Contact
 with liquid may cause frostbite . KEEP OUT OF REACH OF CHILDREN .
 Potential Health Effects:
 Skin Contact May cause skin irritation.
 Eye Contact..... May cause irritation, redness and pain.
 Ingestion..... May be harmful if swallowed.
 Inhalation..... Prolong inhalation of product may cause irritation.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Propane	74-98-6	30-60
Isobutane	75-28-5	15-40
Lubricating Oil	Mix.	10-30
Methylene Chloride	75-09-2	10-30
UV Dye	Not indicated	5-10

SECTION 04: FIRST AID MEASURES

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.
 Skin Contact..... Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20
 minutes. If irritation or redness develops consult a poison control centre or physician
 immediately. 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 swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.
 Inhalation..... Move victim to fresh air. If breathing has stopped, give artificial respiration. If heartbeat
 absent, give external cardiac compression. Monitor breathing and pulse. If symptoms
 persist, call a physician.
 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.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

Spills and Leaks..... Evacuate and Ventilate the area. Remove all sources of ignition. Wash area with significant quantity of water.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling..... Use with adequate ventilation. Contents under pressure. Do not store in temperatures above 120°F (50°C). Keep away from heat, sparks, and open flames.

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)
Lubricating Oil	Not available	Not available	Not available	Not available	Not available
Methylene Chloride	50 ppm	Not established	25 ppm	Not established	Not established
UV Dye	Not available	Not available	Not available	Not available	Not available
Eye/Face Protection.....	Do not get in eyes. Wear safety glasses with side-shields.				
Skin Protection.....	Normally, no hand protection is required; however, prolonged or repeated contact with skin use chemical resistant gloves conforming to appropriate regulations. Observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.				
Respiratory Protection.....	Not required on a short-term basis or if exhaust ventilation is provided. Use NIOSH approved respirator suitable for organic vapours.				
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.....	Pale yellow .
Odour.....	Characteristic.
Odour Threshold (ppm).....	Not available.
pH.....	Not applicable.
Internal can pressure @21C (psig)	Not available.
Vapour Density (Air=1).....	No data.
Evaporation Rate (n-Butyl Acetate = 1).....	Not available.
Initial Boiling Point/Boiling Range (°C).....	>500°C (>932°F).
VOC Content.....	Not available.
Specific Gravity	0.910-0.970.
Specific Gravity (Aerosol).....	0.960-0.968.
Solubility in water.....	Immiscible.
Aerosol Flame Projection.....	Not available .
Auto Ignition Temperature (Propellant), °C...	460°C (860°F).
Flashback.....	No data .
Flash Point (°C), Method.....	Closed cup: -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.
Conditions to Avoid.....	Avoid sources of heat and flame, and electrostatic charge.
Hazardous Decomposition Products.....	Thermal decomposition and burning may produce carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions.....	Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Propane	658 mg/L (Rat - 4hrs)	Not available
Isobutane	658 mg/L (Rat - 4hrs)	Not available
Lubricating Oil	Not available	Not available
Methylene Chloride	79,000 mg/m (Rat - 3/2hr)	1,600 mg/kg (Oral - Rat)
UV Dye	Not available	Not available
Route of Exposure.....	Skin contact, Eye contact, Inhalation and Ingestion.	
Effects of Acute Exposure.....	Harmful if swallowed or inhaled. Repeated or prolonged contact may cause slight irritation to the skin. May cause irritation to the eyes.	
Chronic Effects.....	May cause skin defatting and dermatitis.	
Carcinogenicity.....	Methylene Chloride- ACGIH: A3-Animal Carcinogen, IARC: Group 2B: Possibly carcinogenic to humans, OSHA: Possible select carcinogen, NTP: Anticipated human carcinogen.	
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. Avoid release to the environment. Methylene Chloride: Toxicity to fish: LC50 193 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EC50 1682 mg/L, 48 hrs; Toxicity to algae: EC50 >662 mg/L, 96 hrs.

Ecotoxicity

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) Classification: Compressed Gas. HIMS Classifications: 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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