

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: emzone 12A A/C Stop Leak - 114g****CODE: EM-045856****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... emzone 12A A/C Stop Leak - 114g
 Product Item Numbers..... EM-045856
 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..... A/C leak seal for metal and rubber parts.
 Consumer Commodity..... Yes.
 Hazard Ratings:
 HMIS..... Health: 1 Fire: 4 Reactivity: 1.
 NFPA Rating..... Health: 1 Fire: 4 Reactivity: 1.

SECTION 02: HAZARDS IDENTIFICATION

Emergency Overview..... Extremely flammable . Extreme danger. Contact with liquid can cause frostbite . Container is under pressure. Container may explode if heated. Do not puncture. Do not burn. Do not get in eyes or clothing. KEEP OUT OF REACH OF CHILDREN .

Potential Health Effects:
 Skin Contact Contact with liquid may cause burns and frostbite. Skin may be flushed; as frostbite develops. Blisters may develop.
 Eye Contact..... Direct contact with liquid or frost particles may produce severe and possibly permanent eye damage.
 Ingestion..... Ingestion is not a likely route of exposure.
 Inhalation..... Dense vapour of this material may reduce the available oxygen for breathing. Prolong Inhalation of content may cause irritation.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Isobutane	75-28-5	30-60
Propane	74-98-6	30-60
Silanes Mixture	Trade Secret	10-30
Methanol	67-56-1	0.1-1.0

SECTION 04: FIRST AID MEASURES

Eye Contact..... If eye tissue is frozen, seek medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation, pain, swelling, lacrimation, or photophobia persist, get medical attention as soon as possible .

Skin Contact..... 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. If frostbite has NOT occurred, immediately and thoroughly wash contaminated skin with soap and water.

Ingestion..... If swallowed, get medical attention 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. Get medical attention.

Additional Information..... Note to the doctor; treat symptomatically.

SECTION 05: FIRE FIGHTING MEASURES

Flammability Class..... Extremely Flammable.
 Extinguishing Media..... Carbon dioxide, dry chemicals, foam or water 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..... Remove all sources of ignition. Evacuate and Ventilate the area. Attempt to disperse the gas or direct its flow to a safe location for example by using fog sprays.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling..... Avoid breathing vapours or spray mists of this product. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks, and open flames. Use in well ventilated area. Do not store near cylinders, containing compressed Oxygen or other strong oxidizers. Wash thoroughly after handling . Remove ignition sources.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Isobutane	800 ppm	1000 ppm	800 ppm	Not available	800 ppm (TWA)
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm
Silanes Mixture	Not available	Not available	Not available	Not available	Not available
Methanol	200 ppm	250 ppm	200 ppm	250 ppm	200 ppm
Eye/Face Protection.....	Do not get in eyes. Wear safety glasses with side-shields.				
Skin Protection.....	Use gloves and protective clothing against cold temperature made from viton, butyl rubber, PVC, neoprene or nitrile.				
Respiratory Protection.....	Not required on a short-term basis or if exhaust ventilation is provided. Use approved NIOSH respirators for emergencies.				
Appropriate Engineering Controls.....	Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.				
Exposure Limits					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State..... Liquid.
 Physical Appearance..... Colourless to pale yellow.
 Odour..... Strong alcohol odour.
 Odour Threshold (ppm)..... Not available.
 pH..... Not applicable.
 Vapour Pressure (psig)..... 70.
 Vapour Density (Air=1)..... Not available.
 Evaporation Rate (n-Butyl Acetate = 1)..... Not available.
 Boiling Point (° C)..... 125 °C.
 VOC Content..... > 75%.
 Specific Gravity 0.570-0.600.
 Specific Gravity (Aerosol)..... 0.960-0.968.
 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..... 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. Strong acids.
 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

INGREDIENTS	LC50	LD50
Isobutane	658 mg/L (Rat - 4hrs)	Not available
Propane	658 mg/L (Rat - 4hrs)	Not available
Silanes Mixture	Not available	Not available

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Methanol	128.2 mg/L (Rat - 4hrs)	5,628 mg/kg (Oral - Rat); 15,840 mg/kg (Dermal - Rabbit)
Route of Exposure.....	Skin contact, Eye contact, Inhalation.	
Effects of Acute Exposure.....	Rapid released of gases which are liquids under pressure may cause frost burns of exposed tissues (skin,eye) due to evaporative cooling. High gas concentrations will displace available oxygen from the air; unconsciousness and death may occur suddenly from lack of oxygen. Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.	
Chronic Effects.....	May cause damage to the central nervous system .	
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. B1: Flammable Gas.
 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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