

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: emzone 134a A/C Leak Sealant with U/V Dye - 114g****CODE: EM-045820****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... emzone 134a A/C Leak Sealant with U/V Dye - 114g
 Product Item Numbers..... EM-045820
 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..... Repair leaks, and conditions O-Rings, automotive air conditioning system hoses, and gaskets .
 Consumer Commodity..... Yes.
 Hazard Ratings:
 HMIS..... Health: 2 Fire: 0 Reactivity: 0.
 NFPA Rating..... Health: 2 Fire: 0 Reactivity: 0.

SECTION 02: HAZARDS IDENTIFICATION

Emergency Overview..... Caution. Container is under pressure. Container may explode if heated. Do not puncture. Do not burn. May be harmful by inhalation. May irritate eyes and skin. Potential cancer hazard . KEEP OUT OF REACH OF CHILDREN .
 Potential Health Effects:
 Skin Contact May cause skin irritation.
 Eye Contact..... Causes eye irritation .
 Ingestion..... Can be harmful if ingested .
 Inhalation..... Excessive inhalation can cause nasal and respiratory irritation.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
1,1,1,2 Tetrafluoroethane	811-97-2	40-70
Lubricating Oil	Mix.	15-40
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..... Immediately flush the contaminated skin with soap and water. If this chemical penetrates clothing, immediately remove the clothing and flush the skin with water. If irritation persists after washing, get medical attention .
 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. If symptoms persist, call a physician.
 Additional Information..... Note to the doctor; treat symptomatically.

SECTION 05: FIRE FIGHTING MEASURES

Flammability Class..... Non-Flammable.
 Extinguishing Media..... Use media suitable to the surrounding fire such as foam, dry chemical or water 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. Contain spillage, and place in container for disposal according to local/national regulations (see Section 13).

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CODE: EM-045820

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling..... Avoid breathing vapours or spray mists of this product. Use with adequate ventilation. Do not store in temperatures above 120°F (50°C).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
1,1,1,2 Tetrafluoroethane	Not available	Not available	Not available	Not available	Not available
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.....	Gloves impervious to the material, must be worn. Observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.				
Respiratory Protection.....	Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed below), use NIOSH approved respiratory protection .				
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.....	Luminous Yellow .
Odour.....	Mild odour.
Odour Threshold (ppm).....	Not available.
pH.....	Not applicable.
Internal can pressure @21C (psig)	Not available.
Vapour Density (Air=1).....	Not available.
Evaporation Rate (n-Butyl Acetate = 1).....	Not available.
Boiling Point (° C).....	Not available.
VOC Content.....	None .
Specific Gravity	0.990-1.300.
Specific Gravity (Aerosol).....	0.960-0.968.
Solubility in water.....	Not soluble in water.
Aerosol Flame Projection.....	Not applicable.
Auto Ignition Temperature (Propellant), °C...	Not applicable.
Flashback.....	No data .
Flash Point (°C), Method.....	None.
Lower Flammable Limit (% Vol).....	Not applicable.
Upper Flammable Limit (% Vol).....	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability.....	Stable at normal temperatures and pressures.
Incompatible Materials.....	Do not mix with alkali or alkaline earth metals (Al, Zn, Be, Cu). Strong Oxidizers.
Conditions to Avoid.....	Avoid sources of heat and flame, and electrostatic charge.
Hazardous Decomposition Products.....	Halogens, halogen acids (HF), Carbon monoxide, Carbon dioxide, and carbonyl halides.
Possibility of Hazardous Reactions.....	Under normal conditions of storage and use, hazardous polymerization will not occur .

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
1,1,1,2 Tetrafluoroethane	1,500,000 ppm (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.	
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.	

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Chronic Effects..... May cause Central Nervous System effects, irritation to the eyes and upper respiratory system. Potential cancer hazard .

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. This product has not been tested. Based on information available on its ingredients, no adverse environmental impact is anticipated under intended use in accordance with instructions.

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 2.2, UN1950.

DOT (US-Road)..... AEROSOLS, Class 2.2, UN1950, LTD QTY, Consumer Commodity ORM-D.

IMDG (International- Marine)..... AEROSOLS, Class 2.2, UN1950.

IATA (International- Air)..... AEROSOLS, Class 2.2, UN1950, LTD QTY .

SECTION 15: REGULATORY INFORMATION

Canada Regulations:..... WHMIS Classification. A: Compressed gas. 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

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.

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.

Prepared by Regulatory Affairs

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