

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: Emzone Penetrating Foam - 445g****CODE: 045028****Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone Penetrating Foam - 445g
 Product Item Numbers..... 045028
 Manufactured by..... 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..... Non-drip Foam penetrates rust, loosens tight parts.
 Consumer Commodity..... Yes.
 Hazard Ratings:
 HMIS..... Health: 2 Fire: 3 Reactivity: 0.
 NFPA Rating..... Health: 2 Fire: 3 Reactivity: 0.

Section 02: HAZARDS IDENTIFICATION

Emergency Overview..... Flammable. Danger. Poison. Container is under pressure. Container may explode if heated. May catch fire. Contents harmful . Do not puncture. Do not burn. Do not get in eyes or clothing. Do not breathe fumes. KEEP OUT OF REACH OF CHILDREN .

Potential Health Effects:
 Eye Contact..... This product causes irritation, redness and pain.
 Skin Contact..... Prolonged or repeated contact may dry the skin. Can cause skin irritation.
 Ingestion..... Harmful if swallowed.
 Inhalation..... Inhalation of vapour may cause irritation. May cause drowsiness or dizziness.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	Wt. %
Kerosene	8008-20-6	10-30
Propane	74-98-6	10-30
Oleic acid	112-80-1	7-13
Methyl isobutyl carbinol	108-11-2	5-10
Isobutane	75-28-5	5-10
2-butoxyethanol	111-76-2	1-5
Ammonium Hydroxide	1336-21-6	1-5

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 swallowed, get medical attention immediately. Do not induce vomiting .
 Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance. If breathing is difficult, give oxygen and get medical attention.
 Additional Information..... Note to the doctor; treat symptomatically.

Section 05: FIRE FIGHTING MEASURES

Flammability Class..... 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..... Large spill or leak is unlikely in aerosol containers. If spill or leak occurs, ventilate enclosed spaces and disperse gas with floor-level forced-air ventilation. Exhaust vapours outdoors. Do not smoke or operate internal combustion engines. Remove flames and heating elements.

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Section 07: HANDLING AND STORAGE

Handling..... Keep container tightly closed. Use with adequate ventilation. Do not store in temperatures above 120°F (50°C).

Section 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye/Type..... Safety glasses with side-shields.
 Skin/Type..... Use gloves and protective clothing against cold temperature made from viton, butyl rubber, PVC, neoprene or nitrile.
 Respiratory/Type..... Not required on a short-term basis or if exhaust ventilation is provided. Use approved NIOSH respirators for emergencies.
 Engineering Controls..... Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.

Exposure Limits

Ingredients	TWA	ACGIH TLV		OSHA PEL STEL	REL	NIOSH
		STEL	PEL			
Kerosene	200mg/m ³	Not available	Not available	Not available		
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm	
Oleic acid	Not available	Not available	Not available	Not available	Not available	Not available
Methyl isobutyl carbinol	25 ppm	40 ppm	Not available	40 ppm	Not available	
Isobutane	800 ppm	1000 ppm	800ppm	Not available	800 ppm (TWA)	
2-butoxyethanol	20 ppm	Not available	50 ppm	Not available	5 ppm	
Ammonium Hydroxide	25 ppm	35 ppm	Not available	Not available	25 ppm	

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State..... Narrow stream slight foam.
 Physical Appearance..... Brown liquid .
 Odour..... Hydrocarbons.
 Odour Threshold (ppm)..... Not available.
 pH..... 9.0 - 10.0.
 Vapour Pressure (psig)..... 75-120.
 Vapour Density (Air=1)..... < 1.
 Evaporation Rate (n-Butyl Acetate = 1)..... < 1.
 Boiling Point (° C)..... Not available.
 VOC Content..... Not available.
 Specific Gravity (liquid)..... 0.710-0.770 .
 Specific Gravity (Aerosol)..... 0.865- 0.895 .
 Solubility in water..... Lightly miscible 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

Stability..... Stable at normal temperatures and pressures.
 Incompatibility..... Strong oxidizing agents.
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge.
 Hazardous Products of Decomposition..... May form carbon dioxide and carbon monoxide, various hydrocarbons.
 Hazardous Polymerization..... Will not occur.

Section 11: TOXICOLOGICAL INFORMATION

Route of Exposure..... Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion.
 Effects of Acute Exposure..... This product is harmful if inhaled or swallowed. Contact with skin and eyes may cause mild to moderate irritation and frostbite. Symptoms may include redness, pain, numbness, pricking and itching. Inhalation of vapours causes irritation to the nose, throat and respiratory tract, with coughing, wheezing, dizziness, headache, drowsiness, nausea and vomiting. Inhalation of higher concentrations may result in central nervous system depression and unconsciousness. High vapour concentrations reduce oxygen available for breathing, resulting in asphyxiation.
 Effects of Chronic Exposure..... May cause skin defatting and dermatitis. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
 Carcinogenicity of Material..... Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.
 Reproductive Effects..... No information is available, and no adverse effects are expected.
 Teratogenicity..... No information is available, and no adverse effects are expected.

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Mutagenicity..... No information is available, and no adverse effects are expected.
 Toxicological Data

Ingredients	LC50	LD50
Kerosene	>5,000 ppm (inh, 4hr, rat)	>5000 mg/kg (oral, rat); >2000 mg/kg (dermal, rabbit)
Propane	>800,000 ppm (15 min,Inh.rat)	Not available
Oleic acid	Not available	74,000 mg/kg
Methyl isobutyl carbinol	> 3776 ppm (4 hrs)	2590 mg/kg (4hr,Inh, rat)
Isobutane	658 mg/L (4hrs,rat)	Not available
2-butoxyethanol	450 ppm	470 mg/kg
Ammonium Hydroxide	Not available	350 mg/kg

Section 12: ECOLOGICAL INFORMATION

Environmental..... Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

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. OR 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..... WHMIS Classification. A: Compressed gas. B5: Flammable Aerosol. D1B: Material causing very toxic effects. D2B: Material causing other toxic Materials.
 USA..... 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; WHIMIS: Workplace Hazardous Materials Information System.

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