

**empack**Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571**PRODUCT: Emzone Penetrating Lubricant - 400g****CODE: 045002****Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone Penetrating Lubricant - 400g  
 Product Item Numbers..... 045002  
 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..... Lubricant, Penetrant, Rust Inhibitor.  
 Consumer Commodity..... Yes.  
 Hazard Ratings:  
 HMIS..... Health: 1 Fire: 3 Reactivity: 1.  
 NFPA Rating..... Health: 1 Fire: 3 Reactivity: 1.

**Section 02: HAZARDS IDENTIFICATION**

Emergency Overview..... Container is under pressure. May catch fire. Container may explode if heated. 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..... May cause irritation, redness and pain.  
 Skin Contact..... Can cause skin irritation. Prolonged or repeated contact may dry the skin.  
 Ingestion..... Ingestion is not a likely route of exposure. If it occurs, do not induce vomiting.  
 Inhalation..... Inhalation of vapour may cause irritation. Prolonged exposure to an oxygen-deficient atmosphere may be fatal.

**Section 03: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients	CAS #	Wt. %
Lubricating Oils	64742-58-1	60- 100
Propane	74-98-6	10-30
Isobutane	75-28-5	7-13
Rust Inhibitor	proprietary	1-5

**Section 04: FIRST AID MEASURES**

Eye Contact..... Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.  
 Skin Contact..... Wash exposed area with soap and water. If irritation or redness develops, seek medical attention. Remove contaminated clothing. Launder clothing before reuse.  
 Ingestion..... Ingestion is not a likely route of exposure.  
 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. Do not give adrenaline, epinephrine or similar drugs following exposure to this product.  
 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. Remove all sources of ignition.

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**Section 07: HANDLING AND STORAGE**

Handling..... Use with adequate ventilation. Do not breathe vapour or mist. Keep container tightly closed. Do not enter confined spaces unless adequately ventilated. 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 rubber or latex gloves when there is a potential for prolonged or excessive skin contact.  
 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		PEL	OSHA PEL		REL	NIOSH
			STEL			STEL		
Lubricating Oils								
Propane	2,500 ppm		Not available	1,000 ppm		Not available		1,000 ppm
Isobutane	800 ppm		1000 ppm	800ppm		Not available		800 ppm (TWA)
Rust Inhibitor	Not available		Not available	Not available		Not available		Not available

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State..... Aerosol.  
 Physical Appearance..... Honey .  
 Odour..... Odourless.  
 Odour Threshold (ppm)..... Not available.  
 pH..... Not applicable.  
 Vapour Pressure (psig)..... 80-110.  
 Vapour Density (Air=1)..... Not available.  
 Evaporation Rate (n-Butyl Acetate = 1)..... > 1 .  
 Boiling Point (propellant), ° C..... > 148.8 ° C.  
 VOC Content..... > 95 wt%.  
 Specific Gravity (Liquid)..... 0.740 - 0.780.  
 Specific Gravity (Aerosol)..... 0.865- 0.895 .  
 Solubility in water..... Nil.  
 Aerosol Flame Projection..... Not available .  
 Auto Ignition Temperature (Propellant), ° C.. 460 °C/860 °F.  
 Flashback..... No.  
 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..... 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.  
 Effects of Chronic Exposure..... No known adverse effects .  
 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.  
 Mutagenicity..... No information is available, and no adverse effects are expected.

## Toxicological Data

Ingredients	LC50	LD50
Lubricating Oils	not available	>2000 mg/Kg (rat-oral), >2000 mg/kg (rat-dermal), >4480 mg/kg (rabbit-dermal)
Propane	>800,000 ppm (15 min,Inh.rat)	Not available

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**Section 11: TOXICOLOGICAL INFORMATION**

Ingredients	LC50	LD50
Isobutane	658 mg/L (4hrs, rat)	Not available
Rust Inhibitor	Not available	Not available

**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 2.1, 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. 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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