

**empack**Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571**PRODUCT: Emzone Brake Cl. Industrial - 408g****CODE: 045004****Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone Brake Cl. Industrial - 408g  
 Product Item Numbers..... 045004  
 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..... Dissolves and removes grease, oil and dirt from brake parts and C.V. joints .  
 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..... Extremely flammable . Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Harmful or fatal if swallowed. Vapors are harmful. KEEP OUT OF REACH OF CHILDREN .

Potential Health Effects:  
 Eye Contact..... This product causes irritation, redness and pain.  
 Skin Contact..... Can cause skin irritation. Prolonged or repeated contact may dry the skin.  
 Ingestion..... Harmful if swallowed.  
 Inhalation..... Can cause headaches, dizziness, fatigue, lack of coordination, tremors and unconsciousness.

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

Hazardous Ingredients	CAS #	Wt. %
Heptane	142-82-5	60-100
Isopropyl Alcohol	67-63-0	10-30

**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..... 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..... Do not induce vomiting, get medical attention.  
 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..... 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.

**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.

PRODUCT: Emzone Brake Cl. Industrial - 408g

CODE: 045004

**Section 07: HANDLING AND STORAGE**

Handling..... Do not breathe vapour or mist. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Do not enter confined spaces unless adequately ventilated.

**Section 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Eye/Type..... Safety glasses with side-shields.  
 Skin/Type..... Normally, no hand protection is required; however, prolong 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/Type..... 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 above), use NIOSH approved respiratory protection .  
 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		
Heptane	400 ppm		500 ppm	500 ppm		Not available		85 ppm for n-Heptane, 440 ppm for a ceiling conc.
Isopropyl Alcohol	400 ppm (983 mg/m3)		500 ppm (1230 mg/m3)	400 ppm (980 mg/m3)		500 ppm (1,225 mg/m3)		400 ppm (TWA)

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State..... Aerosol.  
 Physical Appearance..... Clear mist.  
 Odour..... Hydrocarbons.  
 Odour Threshold (ppm)..... 230.  
 pH..... Not applicable.  
 Vapour Pressure (psig)..... 80-100.  
 Vapour Density (Air=1)..... > 1.  
 Evaporation Rate (n-Butyl Acetate = 1)..... 4.3.  
 Initial Boiling Point/Boiling Range (° C)..... 90-110.  
 VOC Content..... 95-100 % wt.  
 Specific Gravity (Liquid)..... 0.680- 0.720.  
 Specific Gravity (Aerosol)..... 0.620- 0.660.  
 Solubility in water..... Nil.  
 Aerosol Flame Projection..... >100 cm.  
 Auto Ignition Temperature (Propellant), ° C.. 285°C (545°F).  
 Flashback..... Yes.  
 Flash Point (° C), Method..... -4°C (25°F).  
 Lower Flammable Limit (% Vol)..... 1.0.  
 Upper Flammable Limit (% Vol)..... 8.0.

**Section 10: STABILITY AND REACTIVITY**

Stability..... Stable under the recommended storage and handling conditions.  
 Incompatibility..... Strong oxidizing agents.  
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge. High temperatures may cause thermal decomposition.  
 Hazardous Products of Decomposition..... Fumes and smoke.  
 Hazardous Polymerization..... Will not occur.

**Section 11: TOXICOLOGICAL INFORMATION**

Route of Exposure..... Skin contact, Eye contact, Inhalation and Ingestion.  
 Effects of Acute Exposure..... High vapor/aerosol concentrations may be irritating to eyes. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Ingestion may result in vomiting.  
 Effects of Chronic Exposure..... Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. Prolong contact may defat and dry the skin, leading to discomfort and dermatitis .  
 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.

PRODUCT: Emzone Brake Cl. Industrial - 408g

CODE: 045004

**Section 11: TOXICOLOGICAL INFORMATION**

## Toxicological Data

Ingredients	LC50	LD50
Heptane	103,000 mg/L (4hrs - rat)	>15,000 mg/kg (rat - oral); >2,000 mg/kg (rabbit - dermal)
Isopropyl Alcohol	>20,000 ppm (4hrs-rat)	4,700 - 5,800 mg/kg (oral,rat)

**Section 12: ECOLOGICAL INFORMATION**

Environmental..... Very 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. Heptane: Toxicity to fish: LC50 1.284 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 0.1 mg/L, 96 hrs; Toxicity to algae: EL50 4.338 mg/L, 72 hrs.

**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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