

**empack**Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571**PRODUCT: Emzone EcoFill Brake & Parts Cleaner - Pail - 18.9L****CODE: 044340****Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone EcoFill Brake & Parts Cleaner - Pail - 18.9L  
 Product Item Numbers..... 044340  
 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..... Cleaning solvent.  
 Consumer Commodity..... Yes.  
 Hazard Ratings:  
 HMIS..... Health: 1 Fire: 3 Reactivity: 0 PPE: G.  
 NFPA Rating..... Health: 1 Fire: 3 Reactivity: 0 Special: - .

**Section 02: HAZARDS IDENTIFICATION**

Emergency Overview..... Highly flammable liquid and vapour. May be fatal if swallowed and enters airways .  
 Aspiration hazard. Causes skin irritation. May cause drowsiness or dizziness. 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..... May be fatal if swallowed.  
 Inhalation..... Inhalation may cause respiratory tract irritation. Can cause Central Nervous System (CNS) depression; symptoms include nausea, headache, dizziness, unconsciousness .

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

Hazardous Ingredients	CAS #	Wt. %
Heptane	142-82-5	60-100

**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..... Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.  
 Ingestion..... Call a physician or Poison Control Centre immediately. Keep respiratory tract clear. Never give anything by mouth to an unconscious person.  
 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. Contains material that is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

**Section 05: FIRE FIGHTING MEASURES**

Flammability Class..... Extremely Flammable.  
 Extinguishing Media..... Small Fire: Use Dry Chemical. Large Fire: Use water spray or 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 then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13). CAUTION: Leak/spill may cause slippery surface .

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**Section 07: HANDLING AND STORAGE**

Handling..... Avoid formation of aerosol. Do not breathe vapour or dust. Use with adequate ventilation. For personal protection see Section 08. Ground all equipment containing the material. Wash skin thoroughly after handling. Keep away from heat and sparks. Keep away from sources of ignition. Do not smoke while handling the product. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked-up.

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

Ingredients	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Heptane	400 ppm	500 ppm	500 ppm	Not available	85 ppm for n-Heptane, 440 ppm for a ceiling conc.
	400 ppm				
Eye/Type.....	Safety glasses with side-shields.				
Skin/Type.....	Wear as appropriate: Flame retardant antistatic protective clothing and antistatic footwear.				
Respiratory/Type.....	Wear an NIOSH-approved air-purifying respirator equipped with organic vapour cartridges for mists and vapours.				
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..... Liquid.  
 Physical Appearance..... Clear liquid.  
 Odour..... Hydrocarbons.  
 Odour Threshold (ppm)..... Not available.  
 pH..... Not applicable.  
 Vapour Pressure (psig)..... Not available.  
 Vapour Density (Air=1)..... Not available.  
 Evaporation Rate (n-Butyl Acetate = 1)..... > 1 .  
 Initial Boiling Point/Boiling Range (°C)..... 98 °C ( 209°F).  
 VOC Content..... 95-100 %wt.  
 Specific Gravity (liquid)..... 0.660-0.690.  
 Specific Gravity (Aerosol)..... Not applicable.  
 Solubility in water..... Negligible.  
 Aerosol Flame Projection..... Not applicable.  
 Auto Ignition Temperature (°C)..... 204°C (399°F).  
 Flashback..... Yes.  
 Flash Point (°C), Method..... - 4 °C / 24.8 °F (Closed Cup).  
 Lower Flammable Limit (% Vol)..... 1.1.  
 Upper Flammable Limit (% Vol)..... 6.7.

**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**

Ingredients	LC50	LD50
Heptane	103,000 mg/L (4hrs - rat)	>15,000 mg/kg (rat - oral); >2,000 mg/kg (rabbit - dermal)
Route of Exposure.....	Eye contact, Skin contact, Skin absorption, 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.	

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**Section 11: TOXICOLOGICAL INFORMATION**

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

**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)..... HEPTANES, Class 3, UN1206.  
 DOT (US-Road)..... HEPTANES, Class 3, UN1206.  
 IMDG (International- Marine)..... HEPTANES, Class 3, UN1206.  
 IATA (International- Air)..... HEPTANES, Class 3, UN1206.

**Section 15: REGULATORY INFORMATION**

Canada..... WHMIS Classification. B2: Flammable liquid. D2B: Material causing other toxic Materials.  
 USA..... Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200).

**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.

Prepared by ..... Regulatory Affairs  
 Preparation Date..... Sep30/13