

**empack**Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571**PRODUCT: Brake Cleaner Liquid****CODE: P6-044140****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Item Numbers..... P6-044140  
 Product Identity..... Brake Cleaner Liquid  
 Manufacturer..... Empack Spraytech Inc.  
 98 Walker Drive  
 Brampton  
 Ontario  
 Canada  
 L6T 4H6  
 905-792-6571  
 24 hour emergency telephone number..... CHEM TREC: 800-424-9300.  
 Recommended Use..... Solvent degreaser.

**SECTION 02: HAZARDS IDENTIFICATION**

Hazard Classification:  
 Physical Hazards..... Flammable Liquids - Category 2.  
 Health Hazards..... Skin Irritation - Category 2. Serious eye damage/eye irritation - Category 2. Acute Toxicity Oral - Category 5. Acute Toxicity Inhalation - Category 3. Specific Target Organ Toxicity, Single Exposure - Category 3. Aspiration Hazard - Category 1.  
 Environmental Hazards..... Acute Aquatic Hazard - Category 1. Chronic Aquatic Hazard - Category 1.  
 Label Elements:  
 Signal Word..... DANGER.  
 Hazard Statement..... Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.  
 Precautionary Statements:  
 Prevention..... Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wash hands thoroughly after handling.  
 Response..... IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention. IF SWALLOWED: Immediately call a POISON CENTER. Do NOT induce vomiting.  
 Storage..... Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. Store in a well-ventilated place.  
 Disposal..... Dispose of contents/ container in accordance with local/regional/national/international regulations.  
 Hazard(s) not otherwise classified (HNOC).. None Known.

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

HAZARDOUS INGREDIENTS	CAS #	WT. %
Heptane	142-82-5	60-100

**SECTION 04: FIRST AID MEASURES**

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.  
 Skin Contact..... Wash thoroughly with soap and lukewarm water.  
 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.  
 Ingestion..... Do not induce vomiting, get medical attention. Consult poison control center or physician IMMEDIATELY.

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**SECTION 04: FIRST AID MEASURES**

Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**SECTION 05: FIRE FIGHTING MEASURES**

Suitable Extinguishing Media.....

Dry chemical powder. Carbon dioxide. Foam, water spray or fog.

Unsuitable Extinguishing Media.....

Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical.

Flash back possible over considerable distance.

Special Protective Equipment and .....

Firefighters must use standard protective equipment including flame retardant coat, helmet

Precautions for Firefighters

with water to prevent vapor pressure build up. For massive fire in cargo area, use

General Fire Hazards.....

unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Highly flammable liquid and vapour.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid walking through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 08).

Methods and Materials for Containment and Cleaning Up

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). Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Environmental Precautions.....

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**SECTION 07: HANDLING AND STORAGE**

Precautions for Safe Handling.....

Avoid contact with eyes, skin, and clothing. Avoid breathing vapour of this product. Avoid contact with skin and eyes. Avoid prolonged exposure. Use in well-ventilated areas.

Conditions for Safe Storage including any ... Incompatibilities

Store locked up. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10).

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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Heptane	400 ppm	500 ppm	500 ppm	Not available		85 ppm for n-Heptane, 440 ppm for a ceiling conc.
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Appropriate Engineering Controls.....

Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.

Individual Protection Measures:

Eye/Face Protection.....

Do not get in eyes. Wear safety glasses with side-shields.

Skin Protection.....

Chemical resistant gloves are recommended. Avoid contact with the skin. Wear appropriate chemical resistant clothing.

Respiratory Protection.....

Use dust and mist respirator.

Thermal Hazards.....

None Known.

General Hygiene Considerations.....

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment prior to use.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Form.....

Liquid.

Physical Appearance.....

Clear liquid.

Odor.....

Hydrocarbons.

Odor Threshold (ppm).....

N/A.

Specific Gravity .....

0.680- 0.720.

Aerosol Vapour Pressure (psig, 21°C).....

Not applicable.

Vapour Density (Air=1).....

&gt; 1.

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**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

pH.....	N/A.
Boiling Point liquid (°C).....	98 °C ( 209°F).
Melting/Freezing Point (°C).....	91 °C (196 °F) - lit .
Flash Point (°C), Method.....	No data.
Evaporation Rate (n-Butyl Acetate = 1).....	N/A.
VOC Content.....	100%.
Solubility in water.....	Nil.
Aerosol Flame Projection.....	No data.
Auto Ignition Temperature (°C).....	204°C (399°F).
Lower Flammable Limit (% Vol).....	0.6.
Upper Flammable Limit (% Vol).....	7.0.
Coefficient of Water/Oil Distribution.....	N/A.
Viscosity.....	N/A.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity .....	Product not reactive under normal conditions of use.
Chemical Stability.....	Material is stable under normal conditions.
Possibility of Hazardous Reactions.....	Will not occur.
Conditions to Avoid.....	Avoid sources of heat and flame, and electrostatic charge.
Incompatible Materials.....	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products.....	Carbon Oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
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Heptane	103,000 mg/L (Rat,4hr)	>15,000 mg/kg (rat - oral); >2,000 mg/kg (Dermal,Rabbit)
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## Information on Likely Routes of Exposure:

Routes of entry - Inhalation.....	Yes.
Routes of entry - Skin & Eye.....	Yes.
Routes of entry - Ingestion.....	Yes.
Routes of entry - Skin Absorption.....	Yes.

## Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Acute Toxicity.....	Toxic if inhaled.
Skin Corrosion/Irritation.....	Causes mild skin irritation. Prolonged contact may be more irritating.
Serious Eye Damage/Eye Irritation.....	Causes serious eye irritation.
Respiratory or Skin Sensitization.....	May cause sensitization by skin contact.
Germ Cell Mutagenicity.....	Xylene: Not expected to be mutagenic.
Carcinogenicity.....	Xylene (CAS#: 1330-20-7): ACGIH A4 Not Classified as a human carcinogen; IARC 3 Not classifiable as to carcinogenicity to humans.

## Reproductive Toxicity

STOT - Single Exposure..... Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness.

STOT - Repeated Exposure..... No data available .

## Aspiration Hazard

Chronic Effects..... Prolonged inhalation may be harmful.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity.....	May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment. This product contains the following substance which may also be hazardous for the environment: Heptane (CAS#:142-82-5): 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.
Persistence and degradability .....	The product itself has not been tested.
Bioaccumulation Potential.....	The product itself has not been tested.
Mobility in Soil.....	The product itself has not been tested.
Other Adverse Effects.....	None Known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Appropriate Disposal Methods..... Dispose in accordance with local, provincial and federal regulations.

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**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 Regulations:.....	WHMIS Classification. B2: Flammable liquid. D2B: Material causing other toxic Materials.
Canadian Environmental Protection Act ..... (CEPA)	All ingredients listed appear on the Domestic Substances List (DSL).
Domestic Substances List (DSL)	
Non Domestic Substances List (NDSL)	
US Regulations.....	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 guarantee or warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. The SDS provider 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; WHMIS: Workplace Hazardous Materials Information System STOT: Specific Target Organ Toxicity.
Prepared by .....	Regulatory Affairs
Latest Revision .....	DEC 21/2016