



Empack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571

PRODUCT: emzone Non-Chlorinated Brake Cleaner 18.9L(Threaded Opening)

CODE: P6-044141

SECTION 01: IDENTIFICATION

Product Item Numbers..... P6-044141
 Product Identity..... emzone Non-Chlorinated Brake Cleaner 18.9L(Threaded Opening)
 Manufacturer..... Empack Spraytech Inc.
 98 Walker Drive
 Brampton
 Ontario
 Canada
 L6T 4H6
 905-792-6571
 24 hour emergency telephone number..... In Canada: Call CANUTEC (613) 996-6666 - In The United States: Call CHEMTREC (800) 424-9300.
 Recommended Use..... Solvent degreaser.

SECTION 02: HAZARD IDENTIFICATION



Label Elements:
 Signal Word..... DANGER.
 Hazard Classification:
 Physical Hazards..... Flammable Liquids - Category 2.
 Health Hazards..... Skin Irritation - Category 2. Specific Target Organ Toxicity, Single Exposure - Category 3.
 Aspiration Hazard - Category 1.
 Environmental Hazards..... Not Classified.
 Hazard Statement..... H225:Highly flammable liquid and vapour. H315:Causes skin irritation. H336:May cause drowsiness or dizziness. H304:May be fatal if swallowed and enters airways.
 Precautionary Statements:
 Prevention..... P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233:Keep container tightly closed. P240:Ground and bond container and receiving equipment. P242:Use non-sparking tools. P243:Take action to prevent static discharges. P241:Use explosion-proof electrical/ventilating/lighting . P264:Wash hand thoroughly after handling. P261:Avoid breathing dust/fume/gas/mist/vapours/spray. P271:Use only outdoors or in a well-ventilated area. P280:Wear protective gloves/ protective clothing/ eye protection/ face protection.
 Response..... P303+P361+P353:IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P370+P378:In case of fire: Use CO2, dry chemicals or foam to extinguish. P302+P352:IF ON SKIN: Wash with plenty of water. P332+P313:If skin irritation occurs: Get medical help. P362+P364:Take off contaminated clothing and wash it before reuse. P321:For specific treatment see section 4 on this SDS. P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312:Call a POISON CENTER if you feel unwell. P301+P310:IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331:Do NOT induce vomiting.
 Storage..... P403+P235:Store in a well ventilated place. Keep cool. P233:Keep container tightly closed. P405: Store locked up.
 Disposal..... P501:Dispose of contents/container in accordance with local, regional, national, and/or international regulations.
 Hazard(s) not otherwise classified (HNOC) None Known.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Heptane (including isomers)	64742-49-0	80-100

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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.
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 .. Precautions for Firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
General Fire Hazards.....	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	OSHA PEL STEL	REL	NIOSH
Heptane (including isomers)	1,600 mg/m ³ (RCP-TWA)	Not available	Not available	Not available	Not available
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.				

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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).....	3.5. at 101 kPa.
pH.....	N/A.
Boiling Point liquid (°C).....	94-99. [ASTM D86]
Melting/Freezing Point (°C).....	Not available.
Flash Point (°C), Method.....	-9. (ASTM D-56).
Evaporation Rate (n-Butyl Acetate = 1).....	>1 .
VOC Content.....	100%.
Solubility in water.....	Negligible.
Aerosol Flame Projection.....	Not applicable.
Auto Ignition Temperature (°C).....	265. (extrapolated).
Lower Flammable Limit (% Vol).....	1.1.
Upper Flammable Limit (% Vol).....	7.0.
Coefficient of Water/Oil Distribution.....	N/A.
Viscosity.....	0.6 cSt (0.6 mm ² /sec) at 20 deg C.

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 (including isomers)	>23.3 mg/L (Rat - 4 hrs)	>5,840 mg/kg (Oral - Rat); >2,920 mg/kg (Dermal - Rat)
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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.....	Harmful or fatal if swallowed.
Skin Corrosion/Irritation.....	Causes skin irritation.
Serious Eye Damage/Eye Irritation.....	May irritate eyes.
Respiratory or Skin Sensitization.....	Not known to be a sensitizer.
Germ Cell Mutagenicity.....	No information is available, and no adverse effects are expected.
Carcinogenicity.....	Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.
Reproductive Toxicity.....	Contains no ingredient listed as toxic to reproduction.
STOT - Single Exposure.....	Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness.
STOT - Repeated Exposure.....	No data available .
Aspiration Hazard.....	May be fatal if swallowed and enters airways.
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: Heptanes including isomers (CAS#: 64742-49-0): Toxicity to fish: LL50 > 13.4 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EL50 3 mg/L, 48 hrs; Toxicity to algae: EL50 10-30 mg/L, 72 hrs. Chronic Toxicity Daphnia magna: NOEC 0.17 mg/L 21 days.
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.

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SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)..... UN1206, HEPTANES, Class 3, PG II.
 DOT (US-Road)..... UN1206, HEPTANES, Class 3, PG II.
 IMDG (International- Marine)..... UN1206, HEPTANES, Class 3, PG II.
 IATA (International- Air)..... UN1206, HEPTANES, Class 3, PG II.

SECTION 15: REGULATORY INFORMATION

Canada Regulations:..... Refer to Section 2 for a WHMIS 2015 Classification for this product.
 Canadian Environmental Protection Act ... All ingredients listed appear on the Domestic Substances List (DSL).
 (CEPA)
 Domestic Substances List (DSL)..... Yes.
 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 vendors or users or third parties, caused by the material. Such vendors 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.

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.

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