

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: Emzone Heavy Duty Engine Shampoo - 446g****CODE: P6-045001****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Item Numbers..... P6-045001
 Product Identity..... Emzone Heavy Duty Engine Shampoo - 446g
 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..... Cleans heavy grease, dirt, and oil deposits on engines in automobiles, power mowers, boats, tractors and industrial machinery. .

SECTION 02: HAZARDS IDENTIFICATION

Hazard Classification:
 Physical Hazards..... Flammable Aerosols - Category 1. Gases Under Pressure - Liquefied Gas .
 Health Hazards..... Acute Toxicity Oral - Category 5. Acute Toxicity Inhalation - Category 3. Aspiration Hazard - Category 1. Skin Irritation - Category 2. Specific Target Organ Toxicity, Repeated Exposure - Category 2. Specific Target Organ Toxicity, Single Exposure - Category 3. Eye Damage/Irritation - Category 2B.
 Environmental Hazards..... Acute Aquatic Hazard - Category 3. Chronic Aquatic Hazard - Category 3.
 Label Elements:
 Signal Word..... DANGER.
 Hazard Statement..... Extremely flammable aerosol. Pressurized container: may burst if heated. Contains gas under pressure; may explode if heated. May be harmful if swallowed. Toxic if inhaled. Causes skin irritation. Causes eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May be harmful if swallowed and enters airways. May cause drowsiness or dizziness. Harmful 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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hand thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Avoid release to the environment.
 Response..... IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER if you feel unwell. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Get medical advice/attention if you feel unwell.
 Storage..... Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
 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. %
Kerosene	8008-20-6	40-70
Xylene	1330-20-7	10-30
Surfactants	Mix.	1-5

PRODUCT: Emzone Heavy Duty Engine Shampoo - 446g

CODE: P6-045001

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

Propane 74-98-6 10-30

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.

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

General Fire Hazards..... Extremely flammable aerosol.

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.

Specific Hazards Arising from the Chemical. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

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.

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..... Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. 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. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C (122°F). Do not puncture, incinerate or crush. 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		PEL	OSHA PEL		REL	NIOSH
		STEL	STEL		STEL	STEL		
Kerosene	200mg/m3	Not available	Not available	Not available	Not available	Not available	Not available	Not available
Xylene	100 ppm	150 ppm	150 ppm	100 ppm (435 mg/m3)	150 ppm (655 mg/m3)	150 ppm (655 mg/m3)	Not established	Not established
Surfactants	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available

PRODUCT: Emzone Heavy Duty Engine Shampoo - 446g

CODE: P6-045001

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm	
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.....	Aerosol.
Physical Appearance.....	Clear liquid.
Odor.....	Hydrocarbons.
Odor Threshold (ppm).....	N/A.
Specific Gravity (Liquid).....	0.800-0.840.
Specific Gravity (Aerosol).....	0.774.
Aerosol Vapour Pressure (psig, 21°C).....	50-60.
Vapour Density (Air=1).....	Not available.
pH.....	N/A.
Boiling Point liquid (°C).....	137-250.
Melting/Freezing Point (°C).....	N/A.
Flash Point (°C), Method.....	-104 °C (-156°F). (Propellant).
Evaporation Rate (n-Butyl Acetate = 1).....	> 1 .
VOC Content.....	Not available.
Solubility in water.....	Nil.
Aerosol Flame Projection.....	No data.
Auto Ignition Temperature (°C).....	450°C (842°F). (Propellant).
Lower Flammable Limit (% Vol).....	2.1. (Propellant).
Upper Flammable Limit (% Vol).....	9.5. (Propellant).
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
Kerosene	>5,000 ppm (inh, 4hr, rat)	>5000 mg/kg (oral, rat); >2000 mg/kg (dermal, rabbit)
Xylene	5000 ppm (4 hrs)	4,300 mg/kg (Oral,Rat)
Surfactants	Not available	Not available
Propane	>800,000 ppm (15 min,Rat)	Not available
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.	

PRODUCT: Emzone Heavy Duty Engine Shampoo - 446g

CODE: P6-045001

SECTION 11: TOXICOLOGICAL INFORMATION

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.....	Xylene (CAS#: 1330-20-7): Can cause adverse reproductive effects- such as birth defects, miscarriages, or infertility.
STOT - Single Exposure.....	Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness.
STOT - Repeated Exposure.....	May cause damage to the liver and kidneys through prolonged or repeated exposure.
Aspiration Hazard.....	Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Chronic Effects.....	No known adverse effects .

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.: Xylene (CAS#:1330-20-7): Toxicity to fish: 780.0 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EC50 0.8 mg/L , 48 hrs; Toxicity to algae: EC50 10.0mg/L. Surfactant 15: Toxicity to fish: 3.2-3.6 mg/l, 96hrs; Toxicity to other aquatic invertebrates: EC50 7.3mg/L, 48h; Toxicity to algae: EC50 >1,000mg/l, 16h. 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.
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. Avoid release to the environment .

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).....	AEROSOLS, Class 2.1, UN1950.
DOT (US-Road).....	AEROSOLS, Class 2.1, UN1950, LTD QTY, Consumer commodity 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 Regulations:.....	WHMIS Classification. B5: Flammable Aerosol. D2B: Material causing other toxic Materials. A: Compressed gas.
Canadian Environmental Protection Act (CEPA)	All ingredients listed appear on the Domestic Substances List (DSL).
US Regulations.....	Environmental Protection Act: Constituents of this product are included on the TSCA inventory.
OSHA.....	This product is considered hazardous under the Federal OSHA hazard communication standard.

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.
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

PRODUCT: Emzone Heavy Duty Engine Shampoo - 446g

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