



Empack Spraytech Inc.  
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Canada  
905-792-6571

**PRODUCT: Emzone Heavy Duty Engine Shampoo - 446 g**

**CODE: P6-045001**

### SECTION 01: IDENTIFICATION

Manufacturer..... Empack Spraytech Inc.  
Product Item Numbers..... P6-045001  
Product Identity..... Emzone Heavy Duty Engine Shampoo - 446 g  
24 hour emergency telephone number..... CANUTEC: 1-613-996-6666.  
Recommended Use..... Engine shampoo.

### SECTION 02: HAZARD IDENTIFICATION



Label Elements:  
Signal Word..... DANGER.  
Hazard Classification:  
Physical Hazards..... Aerosols - Category 3. Gases Under Pressure - Liquefied Gas.  
Health Hazards..... Skin Irritation - Category 3. Eye Irritation - Category 2A. Carcinogenicity - Category 2.  
Reproductive Toxicity - Category 2. Aspiration Hazard - Category 1.  
Environmental Hazards..... Not Classified.  
Hazard Statement..... H229:Pressurised container: May burst if heated (3). H280:Contains gas under pressure;  
may explode if heated (L). H316:Causes mild skin irritation. H319:Causes serious eye  
irritation. H351:Suspected of causing cancer. H361:Suspected of damaging fertility or the  
unborn child. 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. P251:Do not pierce or burn, even after use. P264+P265: Wash hands  
thoroughly after handling. Do not touch eyes. P203:Obtain, read and follow all safety  
instructions before use. P280: Wear protective gloves/protective clothing/eye  
protection/face protection/hearing protection.  
Response..... P332+P317:If skin irritation occurs: Get medical help. P305+P351+P338:IF IN EYES:  
Rinse cautiously with water for several minutes. Remove contact lenses, if present and  
easy to do. Continue rinsing. P337+P317:If eye irritation persists: Get medical help. P318:  
IF exposed or concerned, get medical advice. . P301+P316: IF SWALLOWED: Get  
emergency medical help immediately. . P331:Do NOT induce vomiting.  
Storage..... P410+P412:Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.  
P403:Store in a well ventilated place . 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. %
Distillates (Petroleum) Hydrotreated Light	64742-47-8	7-13
Kerosene	8008-20-6	1-5
Isobutane	75-28-5	1-5
Propane	74-98-6	1-5
Xylene	1330-20-7	1-5
Alcohols, C12-16, ethoxylated	68551-12-2	1-5
Sodium Lauryl Sulfate	151-21-3	0.5-1.5
Ethylbenzene	100-41-4	0.1-1

**PRODUCT: Emzone Heavy Duty Engine Shampoo - 446 g****CODE: P6-045001****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. Rinse mouth. Obtain medical advice.
Most important symptoms/effects, acute .. and delayed	This product contains ingredients that are suspected of causing cancer.
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**

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.
General Fire Hazards.....	Non-flammable aerosol.

**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 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 STEL	PEL	OSHA PEL STEL	REL NIOSH
Distillates (Petroleum) Hydrotreated Light	120 mg/m3	197 ppm	Not established	Not established	Not established
Kerosene	200mg/m3	Not available	Not available	Not available	Not available
Isobutane	Not available	1,000 ppm	Not available	Not available	Not available
Propane	Not available	Not available	1,000 ppm	Not available	Not available
Xylene	50 ppm	150 ppm	100 ppm (435 mg/m3)	Not established	Not established
Sodium Lauryl Sulfate	Not available	Not available	Not available	Not available	Not available

**PRODUCT: Emzone Heavy Duty Engine Shampoo - 446 g****CODE: P6-045001****SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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Ethylbenzene	100 ppm	125 ppm	100 ppm (435 mg/m3)	Not established	100 ppm (435 mg/m3) / STEL 125 ppm
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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..... Aerosol.

Physical Appearance..... Foam.

Odor..... Hydrocarbons.

Odor Threshold (ppm)..... Not available.

Specific Gravity ..... 0.910-0.950.

Vapour Pressure (psig)..... Not available.

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

pH..... 10-11.

Boiling Point liquid (°C)..... Not available.

Melting/Freezing Point (°C)..... Not available.

Flash Point (°C), Method..... -82.8. Closed cup. (Propellant).

Evaporation Rate (n-Butyl Acetate = 1)..... Not available.

Solubility in water..... Soluble.

VOC Content..... NMT 10.

Aerosol Flame Projection..... 0 cm.

Flashback..... No.

Auto Ignition Temperature (°C)..... 460°C (860°F). (Propellant).

Lower Flammable Limit (% Vol)..... 1.8. (Propellant).

Upper Flammable Limit (% Vol)..... 8.8. (Propellant).

Note..... NMT = Not More Than.

**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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Distillates (Petroleum) Hydrotreated Light	>1,400ppm (Rat - 4hrs)	>5,000 mg/kg (Oral - Rat); >3,000 mg/kg (Dermal - Rabbit)
Kerosene	>5,000 ppm (inh, 4hr, rat)	>5000 mg/kg (oral, rat); >2000 mg/kg (dermal, rabbit)
Isobutane	658 mg/L (Rat - 4 hrs)	Not available
Propane	658 mg/L (Rat - 4 hrs)	Not available
Xylene	27.6 mg/L (Rat - 4 hrs)	3,253 mg/kg (Oral - Rat); 12,180 mg/kg (Dermal - Rabbit)
Sodium Lauryl Sulfate	Not available	1,200 mg/kg (Oral - Rat); > 2000 mg/kg (Dermal - Rat)

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INGREDIENTS	LC50	LD50
Ethylbenzene	4000 ppm (Rat - 4 hrs)	3,500 mg/kg (Rat - Oral); 17,800 mg/kg (Dermal - Rabbit)
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.....	No.	
Symptoms Related to the Physical, .....	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.	
Chemical and Toxicological Characteristics		
Acute Toxicity.....	No known significant effects.	
Skin Corrosion/Irritation.....	Causes mild skin irritation. Prolonged contact may be more irritating.	
Serious Eye Damage/Eye Irritation.....	Direct eye contact may cause slight redness. Spraying directly into the eyes may cause frostbite, damage to the cornea resulting in permanent eye injury.	
Respiratory or Skin Sensitization.....	Not classified.	
Germ Cell Mutagenicity.....	No information is available, and no adverse effects are expected.	
Carcinogenicity.....	Contains ingredients classified as carcinogens. Ethylbenzene (CAS#: 100-41-4): IARC: Group 2B (Possibly Carcinogenic to Humans); ACGIH: Group A3 (Confirmed Animal carcinogen with unknown relevance to humans).	
Reproductive Toxicity.....	CHRONIC EXPOSURE TO ETHYLBENZENE HAS BEEN ASSOCIATED WITH REPRODUCTIVE EFFECTS AMONG WOMEN.	
STOT - Single Exposure.....	Not classified.	
STOT - Repeated Exposure.....	Not classified.	
Aspiration Hazard.....	Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.	
Chronic Effects.....	Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	

**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. Ethylbenzene (CAS#:100-41-4): Toxicity to fish: LC50 4.3mg/L,96hr; Toxicity to aquatic invertebrates: LC50 2.6mg/L,96hr; Toxicity to algae: EC5.0mg/L,96hr. Kerosene: Toxicity to fish: LC50 2-5mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EC 4 mg/L, 48 hrs; Toxicity to algae: EC50 1-3mg/L, 72hrs.
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.....	Avoid release to the environment .

**SECTION 13: DISPOSAL CONSIDERATIONS**

Appropriate Disposal Methods.....	This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Spilled material and water rinses are classified as chemical waste and must be disposed of in accordance with current local, provincial and federal regulations.
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**SECTION 14: TRANSPORT INFORMATION**

TDG (Canada- Road).....	UN1950, AEROSOLS, Class 2.2, Ltd. qty.
DOT (US-Road).....	UN1950, AEROSOLS, Class 2.2, Ltd. qty., Consumer Commodity, ORM-D.
IMDG (International- Marine).....	UN1950, AEROSOLS, Class 2.2, Ltd. qty.
IATA (International- Air).....	UN1950, AEROSOLS, Class 2.2, Ltd. qty.

**SECTION 15: REGULATORY INFORMATION**

Canada Regulations:.....	Refer to Section 2 for a WHMIS 2015 Classification for this product.
US Regulations	
California Proposition 65.....	This product is not subject to warning labeling under California Proposition 65.

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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.

NFPA Storage Level..... Level 1.

Prepared by ..... Regulatory Affairs

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