



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

PRODUCT: Emzone Bug and Tar Remover - 487 g

CODE: P6-044035

SECTION 01: IDENTIFICATION

Product Item Numbers..... P6-044035
 Product Identity..... Emzone Bug and Tar Remover - 487 g
 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..... Removing bugs, tar and grime.
 Chemical Family..... Mixture.

SECTION 02: HAZARD IDENTIFICATION



Label Elements:
 Signal Word..... WARNING.
 Hazard Classification:
 Physical Hazards..... Flammable Aerosols - Category 2. Gases Under Pressure - Liquefied Gas.
 Health Hazards..... Skin Irritation - Category 3. Skin Sensitization - Category 1. Specific Target Organ Toxicity, Single Exposure - Category 3.
 Environmental Hazards..... Not Classified.
 Hazard Statement..... H223:Flammable aerosol. H229:Pressurised container: may burst if heated (2). H280:Contains gas under pressure; may explode if heated (L). H316:Causes mild skin irritation. H317:May cause an allergic skin reaction. H336:May cause drowsiness or dizziness.
 Precautionary Statements:
 Prevention..... P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211:Do not spray on an open flame or other ignition source. P251:Do not pierce or burn, even after use. P261:Avoid breathing dust/fume/gas/mist/vapours/spray. P272:Contaminated work clothing must not be allowed out of the workplace. P280:Wear protective gloves. P271:Use only outdoors or in a well-ventilated area.
 Response..... P302+P352:IF ON SKIN: Wash with plenty of water. P332+P313:If skin irritation occurs: Get medical advice/attention. 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.
 Storage..... P410+P412:Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. P403+P233:Store in a well-ventilated place. 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. %
Hydrotreated (light) petroleum distillate	64742-49-0	10-30
Isobutane	75-28-5	7-13
Hydrotreated (heavy) petroleum distillate	64742-48-9	5-10
Propane	74-98-6	1-5
Isopropyl alcohol	67-63-0	1-5
2-Butoxyethanol	111-76-2	1-5

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SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

Fragrance Mix 1-5

SECTION 04: FIRST-AID MEASURES

Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance.

Skin Contact..... Wash exposed area with soap and water. Remove contaminated clothing. If irritation or redness develops, seek medical attention.

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.

Ingestion..... Ingestion is not a likely route of exposure. If ingested, do not induce vomiting, get medical attention.

Most important symptoms/effects, acute .. Immediate medical attention is required.
and delayed

Indication of immediate medical attention .. Provide general supportive measures and treat symptomatically. In case of shortness of
and special treatment needed 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 .. Contents under pressure. Pressurized container may explode when exposed to heat or
flame.

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

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective .. No action shall be taken involving any personal risk or without suitable training. Evacuate
Equipment and Emergency Procedures 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 .. Spill areas may be slippery. Use care to avoid falls or other accidents . Contain the spill.
and Cleaning Up Clean up the spill area with detergent and water. Once spilled material has been collected, use rags or other suitable material to clean spill area. Rags should be properly disposed off.

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 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 .. Store locked up. Pressurized container. Protect from sunlight and do not expose to
Incompatibilities 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
Hydrotreated (light) petroleum distillate	Not available	Not available	Not available	Not available	Not available
Isobutane	Not available	1,000 ppm	Not available	Not available	Not available
Hydrotreated (heavy) petroleum distillate	Not available	Not available	Not available	Not available	Not available
Propane	Not available	Not available	1,000 ppm	Not available	Not available

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV		OSHA PEL		REL NIOSH
		STEL	STEL	PEL	STEL	
Isopropyl alcohol	400 ppm (980 mg/m ³)	500 ppm (1,225 mg/m ³)		400 ppm (980 mg/m ³)	500 ppm (1,225 mg/m ³)	400 ppm (980 mg/m ³)
2-Butoxyethanol	20 ppm	Not available		50 ppm	Not available	Not available
Fragrance	Not established	Not established		Not established	Not established	Not established
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.....	Creamy white .
Odor.....	Fragrance.
Odor Threshold (ppm).....	N/A.
Specific Gravity (Aerosol).....	0.857. to. 0.908.
Specific Gravity (Liquid).....	0.910. to. 0.970.
Aerosol Vapour Pressure (psig, 21°C).....	60-80.
Vapour Density (Air=1).....	>1.
pH.....	8.0 - 10.0.
Boiling Point (Propellant), ° C.....	-21.3 to -11.7.
Melting/Freezing Point (°C).....	N/A.
Flash Point (°C), Method.....	-104 °C (-156°F). Estimated. (Propellant).
Flashback.....	No.
Evaporation Rate (n-Butyl Acetate = 1).....	Not available.
VOC Content.....	N/A.
Solubility in water.....	N/A.
Aerosol Flame Projection.....	No data.
Auto Ignition Temperature (°C).....	460°C (860°F). (Propellant).
Lower Flammable Limit (% Vol).....	1.8. (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. Contact with incompatible substances.
Incompatible Materials.....	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products.....	Carbon Monoxide, Carbon Dioxide, Phosgene, Hydrogen Chloride Gas.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Hydrotreated (light) petroleum distillate	33-42 mg/L (Rat - 4hrs)	>5,800 mg/kg (Oral - Rat); >2,920 mg/kg (Dermal - Rabbit)
Isobutane	658 mg/L (Rat - 4hrs)	Not available
Hydrotreated (heavy) petroleum distillate	>5.04 mg/L (Rat - 4hrs)	>7,000 mg/kg (Oral - Rat); >2,000 mg/kg (Dermal - Rabbit)
Propane	658 mg/L (Rat - 4hrs)	Not available

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Isopropyl alcohol	73 mg/L (Rat - 4hrs)	3,636 mg/kg (Oral - Rat); 4,059 mg/kg (Dermal - Rabbit)
2-Butoxyethanol	450 ppm (Rat - 4hrs)	470 mg/kg (Oral - Rat)
Fragrance	No data	No data
Information on Likely Routes of Exposure:		
Routes of entry - Inhalation.....	Yes.	
Routes of entry - Skin & Eye.....	Yes.	
Routes of entry - Ingestion.....	No.	
Routes of entry - Skin Absorption.....	No.	
Symptoms Related to the Physical, 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.....	May irritate eyes.	
Respiratory or Skin Sensitization.....	Inhalation may cause respiratory tract irritation.	
Germ Cell Mutagenicity.....	No data available to indicate product or any components present at greater than 0.1% are mutagenic.	
Carcinogenicity.....	No information is available.	
Reproductive Toxicity.....	Based on available data, the classification criteria are not met.	
STOT - Single Exposure.....	Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness.	
STOT - Repeated Exposure.....	No known significant effects.	
Aspiration Hazard		
Chronic Effects.....	Repeated or prolonged skin exposure may result in moderate irritation, drying, cracking and defatting of the skin (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. Petroleum Naphtha (CAS#: 64742-49-0): Toxicity to fish: LC50 4.1 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EC50 10 mg/L, 48 hrs; Toxicity to algae: EC50 11 mg/L, 72hr. 2-butoxyethanol (CAS#: 111-76-2): Not established. Isopropanol (CAS#: 67-63-0): Toxicity to fish: LC50 9,640 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 5,102 mg/L, 96 hrs; Toxicity to algae: EL50 >2,000 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.....	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. Contents under pressure. Do not puncture, incinerate or expose to heat, even when empty.
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SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road).....	UN1950, AEROSOLS, Class 2.1, Ltd. Qty.
DOT (US-Road).....	UN1950, AEROSOLS, Class 2.1, Ltd. Qty., Consumer Commodity ORM-D.
IMDG (International- Marine).....	UN1950, AEROSOLS, Class 2.1, Ltd. Qty.
IATA (International- Air).....	UN1950, AEROSOLS, Class 2.1, Ltd. Qty.

SECTION 15: REGULATORY INFORMATION

Canada Regulations:.....	WHMIS Classification. A: Compressed gas. D2B: Material causing other toxic Materials.
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. This product is considered hazardous under the OSHA Hazard Communication Standard.

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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.

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