

**empack**Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571**PRODUCT: Emzone Bug and Tar Remover - 487g****CODE: 044035****Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone Bug and Tar Remover - 487g  
 Product Item Numbers..... 044035  
 Manufactured by..... Empack Spraytech Inc.  
 98 Walker Drive  
 Brampton  
 Ontario  
 Canada  
 L6T 4H6  
 905-792-6571  
 24 hour emergency telephone number..... CANUTEC: (613)-996-6666 collect.  
 Recommended Use..... Bug and Tar Remover Spray.  
 Consumer Commodity..... Yes.  
 Hazard Ratings:  
 HMIS..... Health: 1 Fire: 2 Reactivity: 1.  
 NFPA Rating..... Health: 1 Fire: 2 Reactivity: 1.

**Section 02: HAZARDS IDENTIFICATION**

Emergency Overview..... Contents harmful . May catch fire. Container may explode if heated. Do not puncture. Do not burn. Do not get in eyes or clothing. Do not breathe fumes. May cause skin and eye irritation. KEEP OUT OF REACH OF CHILDREN .

Potential Health Effects:  
 Eye Contact..... This product causes irritation, redness and pain.  
 Skin Contact..... Can cause skin irritation. Prolonged or repeated contact may dry the skin.  
 Ingestion..... Ingestion may cause headache, nausea, vomiting and weakness.  
 Inhalation..... Inhalation of solvents or dust may cause irritation.

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

Hazardous Ingredients	CAS #	Wt. %
Petroleum Naphtha	64742-89-8	10-30
Petroleum Distillates (Naphtha Hydrotreated Heavy)	64742-48-9	5-10
Isobutane	75-28-5	7-13
Propane	74-98-6	1-5
2-Butoxyethanol	111-76-2	1-5
Hydrotreated Light Petroleum Distillate	64742-47-8	1-5
2-Propanol	67-63-0	1-5

**Section 04: FIRST AID MEASURES**

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.  
 Skin Contact..... Wash thoroughly with soap and lukewarm water. Remove contaminated clothing. Launder clothing before reuse.  
 Ingestion..... If ingested, do not induce vomiting, get medical attention.  
 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.  
 Additional Information..... Note to the doctor; treat symptomatically.

**Section 05: FIRE FIGHTING MEASURES**

Flammability Class..... Flammable.  
 Extinguishing Media..... Use media suitable to the surrounding fire such as foam, dry chemical or water fog.  
 Sensitivity to Mechanical Impact..... Not expected to be sensitive.  
 Sensitivity to Static Discharge..... Not expected to be sensitive.

PRODUCT: Emzone Bug and Tar Remover - 487g

CODE: 044035

**Section 06: ACCIDENTAL RELEASE MEASURES**

Spills and Leaks..... Large spill or leak is unlikely in aerosol containers. If spill or leak occurs, ventilate enclosed spaces and disperse gas with floor-level forced-air ventilation. Exhaust vapours outdoors. Do not smoke or operate internal combustion engines. Remove all sources of ignition.

**Section 07: HANDLING AND STORAGE**

Handling..... Use with adequate ventilation. Keep container tightly closed. Do not store in temperatures above 120°F (50°C).

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

Eye/Type..... Safety glasses with side-shields.  
 Skin/Type..... Not normally required. Use rubber or latex gloves when there is a potential for prolonged or excessive skin contact.  
 Respiratory/Type..... Use approved NIOSH respirators for emergencies.  
 Engineering Controls..... Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.

## Exposure Limits

Ingredients	TWA	ACGIH TLV		OSHA PEL		REL	NIOSH
		STEL	STEL	PEL	STEL		
Petroleum Naphtha	Not established	Not established	Not established	Not established	Not established	Not established	Not established
Petroleum Distillates (Naphtha Hydrotreated Heavy)	300 ppm	Not available	Not available	500 ppm (2,900 mg/m <sup>3</sup> )	Not available	Not available	Not available
Isobutane	800 ppm	1000 ppm	1000 ppm	800ppm	Not available	800 ppm (TWA)	800 ppm (TWA)
Propane	2,500 ppm	Not available	Not available	1,000 ppm	Not available	1,000 ppm	1,000 ppm
2-Butoxyethanol	20 ppm	Not available	Not available	50 ppm	Not available	Not available	Not available
Hydrotreated Light Petroleum Distillate	Not available	Not available	Not available	Not available	Not available	Not available	Not available
2-Propanol	Not available	Not available	Not available	Not available	Not available	Not available	Not available

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State..... Aerosol.  
 Physical Appearance..... Creamy white .  
 Odour..... Odourless.  
 Odour Threshold (ppm)..... Not available.  
 pH..... 8.5 - 10.0.  
 Vapour Pressure (psig)..... 30-40.  
 Vapour Density (Air=1)..... Not available.  
 Evaporation Rate (n-Butyl Acetate = 1)..... < 1 (n-Butyl Acetate = 1).  
 Initial Boiling Point/Boiling Range (° C)..... Not available.  
 VOC Content..... Not available.  
 Specific Gravity (Liquid)..... 0.910-0.970.  
 Specific Gravity (Aerosol)..... 0.980-1.020 .  
 Solubility in water..... Soluble in water.  
 Aerosol Flame Projection..... No data.  
 Auto Ignition Temperature (Propellant), ° C.. 460 °C/860 °F.  
 Flashback..... No data .  
 Flash Point (° C), Method..... Closed cup: -83.15 °C (-117.7 °F).  
 Lower Flammable Limit (% Vol)..... 1.8.  
 Upper Flammable Limit (% Vol)..... 9.5.

**Section 10: STABILITY AND REACTIVITY**

Stability..... Stable at normal temperatures and pressures.  
 Incompatibility..... Strong oxidizing agents.  
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge.  
 Hazardous Products of Decomposition..... May form carbon dioxide and carbon monoxide, various hydrocarbons.  
 Hazardous Polymerization..... Will not occur.

**Section 11: TOXICOLOGICAL INFORMATION**

Route of Exposure..... Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion.

PRODUCT: Emzone Bug and Tar Remover - 487g

CODE: 044035

**Section 11: TOXICOLOGICAL INFORMATION**

Effects of Acute Exposure..... This product is harmful if inhaled or swallowed. Contact with skin and eyes may cause mild to moderate irritation and frostbite. Symptoms may include redness, pain, numbness, prickling and itching. Inhalation of vapours causes irritation to the nose, throat and respiratory tract, with coughing, wheezing, dizziness, headache, drowsiness, nausea and vomiting. Inhalation of higher concentrations may result in central nervous system depression and unconsciousness. High vapour concentrations reduce oxygen available for breathing, resulting in asphyxiation.

Effects of Chronic Exposure..... May cause skin defatting and dermatitis. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

Carcinogenicity of Material..... None known when used below acute toxicity limit.

Reproductive Effects..... No information is available, and no adverse effects are expected.

Teratogenicity..... No information is available, and no adverse effects are expected.

Mutagenicity..... No information is available, and no adverse effects are expected.

Toxicological Data

Ingredients	LC50	LD50
Petroleum Naphtha	3400 ppm (4 hrs - rat)	5000 mg/kg (rat - oral); 3160 mg/kg (rabbit - dermal)
Petroleum Distillates (Naphtha Hydrotreated Heavy)	8500 mg/m3 (4 hrs - rat)	5000 ppm (oral, rat)
Isobutane	658 mg/L (4hrs, rat)	Not available
Propane	>800,000 ppm (15 min, Inh. rat)	Not available
2-Butoxyethanol	450 ppm (4hr, rat)	470 mg/kg (4hr, oral, rat)
Hydrotreated Light Petroleum Distillate	5.500 mg/L (rat- Inhl)	5.0 g/kg (rat - oral); 4.0 g/kg (rabbit - dermal)
2-Propanol	Not available	Not available

**Section 12: ECOLOGICAL INFORMATION**

Environmental..... Liquid release is only expected to cause localized, non-persistent environmental damage, such as freezing.

**Section 13: DISPOSAL CONSIDERATIONS**

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

**Section 14: TRANSPORT INFORMATION**

TDG (Canada- Road)..... AEROSOLS, Class 2.1, UN1950.

DOT (US-Road)..... AEROSOLS, Class 2.1, UN1950, LTD. QTY. OR 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..... WHMIS Classification. A: Compressed gas. B5: Flammable Aerosol. D2B: Material causing other toxic Materials.

USA..... Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200) Classification: Compressed Gas. HIMS Classifications: see section 01.

**Section 16: OTHER INFORMATION**

Disclaimer..... The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Empack 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; WHIMIS: Workplace Hazardous Materials Information System.

Prepared by ..... Regulatory Affairs

Preparation Date..... Oct28/13

Last Revision Date ..... Sep19/14