

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: Emzone Gravel Guard Undercoating G8 - 446g****CODE: 045008****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone Gravel Guard Undercoating G8 - 446g
 Product Item Numbers..... 045008
 Manufacturer..... 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..... Coating .
 Consumer Commodity..... Yes.
 Hazard Ratings:
 HMIS..... Health: 1 Fire: 4 Reactivity: 0.
 NFPA Rating..... Health: 1 Fire: 4 Reactivity: 0.

SECTION 02: HAZARDS IDENTIFICATION

Emergency Overview..... Danger. Flammable aerosol. Contents under pressure. Container may explode if heated. Contents harmful . May catch fire. Do not puncture. Do not burn. Do not get in eyes or clothing. May irritate eyes and skin. 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 is not a likely route of exposure. Harmful if swallowed.
 Inhalation..... Can cause headaches, dizziness, fatigue, lack of coordination, tremors and unconsciousness.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Toluene	108-88-3	30-60
Alicyclic Hydrocarbon Resin	69430-35-9	10-30
Propane	74-98-6	10-30
Isobutane	75-28-5	7-13
Methanol	67-56-1	0.1-1.0

SECTION 04: FIRST AID MEASURES

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.
 Skin Contact..... Immediately flush the contaminated skin with soap and water. If this chemical penetrates clothing, immediately remove the clothing and flush the skin with water. If irritation persists after washing, get medical attention .
 Ingestion..... If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.
 Inhalation..... Move victim to fresh air. If breathing has stopped, give artificial respiration. If heartbeat absent, give external cardiac compression. Monitor breathing and pulse. If symptoms persist, call a physician.
 Additional Information..... Note to the doctor; treat symptomatically.

SECTION 05: FIRE FIGHTING MEASURES

Flammability Class..... Extremely 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 Gravel Guard Undercoating G8 - 446g

CODE: 045008

SECTION 06: ACCIDENTAL RELEASE MEASURES

Spills and Leaks..... Put on appropriate personal protective equipment (see Section 08). Eliminate all sources of ignition and ventilate area. 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).

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling..... Do not breathe vapour or mist. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Do not store in temperatures above 120°F (50°C).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Toluene	20 ppm	Not available	Not available	Not available	Not available
Alicyclic Hydrocarbon Resin	Not available	Not available	Not available	Not available	Not available
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm
Isobutane	800 ppm	1000 ppm	800ppm	Not available	800 ppm (TWA)
Methanol	200 ppm	250 ppm	200 ppm	250 ppm	200 ppm
Eye/Face Protection.....	Do not get in eyes. Wear safety glasses with side-shields.				
Skin Protection.....	Normally, no hand protection is required; however, prolonged or repeated contact with skin use chemical resistant gloves conforming to appropriate regulations. Observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.				
Respiratory Protection.....	Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed below), use NIOSH approved respiratory protection .				
Appropriate Engineering Controls.....	Good general ventilation should be used. Ventilation rates should be matched to conditions. Use local exhaust ventilation to maintain airborne levels below the Threshold Limit Value.				
Exposure Limits					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State..... Aerosol.
 Physical Appearance..... Dark gray .
 Odour..... Aromatic odour.
 Odour Threshold (ppm)..... Not available.
 pH..... Not applicable.
 Internal can pressure @21C (psig) 60-80.
 Vapour Density (Air=1)..... Not available.
 Evaporation Rate (n-Butyl Acetate = 1)..... > 1 .
 Initial Boiling Point/Boiling Range (°C)..... 100°C -120°C (212°F - 248°F).
 VOC Content..... Not available.
 Specific Gravity (Liquid)..... 0.840-0.925.
 Specific Gravity (Aerosol)..... 0.820-0.860.
 Solubility in water..... Nil.
 Aerosol Flame Projection..... Not available .
 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

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

PRODUCT: Emzone Gravel Guard Undercoating G8 - 446g

CODE: 045008

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Toluene	20 mg/l (4 hrs)	>5,000 mg/kg (Rat,Ora); 12,124mg/kg (Rabbit,Dermal)
Alicyclic Hydrocarbon Resin	Not available	Not available
Propane	>800,000 ppm (15 min,Rat)	Not available
Isobutane	658 mg/L (4hrs,rat)	Not available
Methanol	128.2 mg/L (4h,Rat)	5628 mg/kg (Rat, Oral); 15,840 mg/kg (Rabbit, Dermal)
Route of Exposure.....	Eye contact, Skin contact, Skin absorption, Inhalation, and Ingestion.	
Effects of Acute Exposure.....	High vapor/aerosol concentrations may be irritating to eyes. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Ingestion may result in vomiting.	
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. Prolong contact may defat and dry the skin, leading to discomfort and dermatitis .	
Carcinogenicity.....	Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.	
Reproductive Toxicity.....	No information is available, and no adverse effects are expected.	
Teratogenicity.....	No information is available, and no adverse effects are expected.	
Germ Cell Mutagenicity.....	No information is available, and no adverse effects are expected.	
Toxicological Data		

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... 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. Toluene: Toxicity to fish: LC50 5.5 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 3.78 mg/L, 48 hrs; Toxicity to algae: EL50 10.0 mg/L, 72 hrs. Methanol: Toxicity to fish: LC50 19,000 mg/L, 96 hrs.

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, 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. A: Compressed gas. B5: Flammable Aerosol. D2B: Material causing other toxic Materials. CPR (Canadian Controlled Product Regulations): All ingredients are CEPA approved for import to Canada. This product has been classified in accordance with the hazard criteria of the CPR and this SDS contains all information required by CPR. IDL (Canadian Ingredient Disclosure List): Component(s) of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List (section 03).

US Regulations..... 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.

PRODUCT: Emzone Gravel Guard Undercoating G8 - 446g

CODE: 045008

SECTION 16: OTHER INFORMATION

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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