

**empack**Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571**PRODUCT: Emzone Odor Stop 156g****CODE: 044210****Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone Odor Stop 156g  
 Product Item Numbers..... 044210  
 Manufacturer Name and Address..... 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..... Odour neutralizer.  
 TDG Classification..... AEROSOLS, Class 2.1, UN1950.  
 Hazard Ratings:  
 HMIS..... Health: 1 Fire: 4 Reactivity: 0.  
 NFPA Rating..... Health: 1 Fire: 4 Reactivity: 0.

**Section 02: HAZARDS IDENTIFICATION**

Emergency Overview..... Contents under pressure. Gas reduces oxygen available for breathing.  
 Potential Health Effects:  
 Eye Contact..... This product causes irritation, redness and pain. The liquid of this material can produce chilling sensation and discomfort. .  
 Skin Contact..... Can cause skin irritation. Prolonged or repeated contact may dry the skin, brittleness, cracking.  
 Ingestion..... Ingestion is not a likely route of exposure.  
 Inhalation..... Extremely high level may cause narcosis, headache. Dense vapour of this material may reduce the available oxygen for breathing. Prolonged exposure to an oxygen-deficient atmosphere may be fatal.

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

Hazardous Ingredients	CAS #	Wt. %
Ethyl Alcohol	64-17-5	60-100
Propane	74-98-6	5-10
Isobutane	75-28-5	10-30

**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. Treat frostbite by immediately immersing affected areas in warm water until the skin has warmed up and turned pink. Obtain Medical attention IMMEDIATELY.  
 Ingestion..... Not applicable - Product is a gas at ambient temp.  
 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.  
 Aerosol Flame Projection Classified as..... > 45 cm but <100 cm .  
 Fire and Explosion Hazards..... May decompose on contact with flames or extremely hot metal surfaces to produce toxic and corrosive products. Thermal decomposition products are Carbon oxides (CO, CO2).  
 Extinguishing Media..... Carbon dioxide, dry chemicals, foam or water fog.  
 Sensitivity to Mechanical Impact..... Not expected to be sensitive.  
 Sensitivity to Static Discharge..... Can be sensitive.

**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 flames and heating elements.

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**Section 07: HANDLING AND STORAGE**

Handling..... Do not breathe vapour or mist. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Do not enter confined spaces unless adequately ventilated.

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

Eye/Type..... Use chemical safety glasses.  
 Skin/Type..... Use gloves and protective clothing against cold temperature made from viton, butyl rubber, PVC, neoprene or nitrile.  
 Respiratory/Type..... Not required on a short-term basis or if exhaust ventilation is provided. 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		PEL	OSHA PEL		REL	NIOSH
			STEL			STEL		
Ethyl Alcohol	Not established	1,000 ppm	15 minutes	1,000 ppm	Not established		1,000 ppm	
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)	

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State..... Aerosol.  
 Physical Appearance..... Clear mist.  
 Odour..... Fragrance.  
 Odour Threshold (ppm)..... Not determined.  
 pH..... Not applicable.  
 Vapour Pressure (psig)..... 81 @ 20C.  
 Vapour Density (Air=1)..... > 1.  
 Evaporation Rate (n-Butyl Acetate = 1)..... 1.8.  
 Boiling Point (liquid)..... 80C. Boiling Point (liquid).  
 Specific Gravity (liquid)..... 0.790.  
 Specific Gravity (Aerosol)..... 0.62- 0.66 @ 25C.  
 Auto Ignition Temperature (Propellant), ° C.. 460C/860F.  
 Flash Point (° C), Method..... -83.15°C/ -117.7°F.  
 Explosion Limits (vol%)..... Lower: 1.8; Upper: 8.5.  
 Solubility in water..... Lightly miscible in water.

**Section 10: STABILITY AND REACTIVITY**

Stability..... Stable under the recommended storage and handling conditions.  
 Reactivity Conditions..... Avoid sources of heat and flame, and electrostatic charge.  
 Incompatibility..... Strong oxidizing agents.  
 Hazardous Products of Decomposition..... May form carbon dioxide and carbon monoxide, various hydrocarbons.  
 Hazardous Polymerization..... Will not occur.

**Section 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity of Material..... Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.  
 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-inh, rat	LD50-Oral, rat
Ethyl Alcohol	20,000 ppm (10 hrs)	12,600 mg/kg (rat - oral)
Propane	>800,000 ppm (15 min - rat)	Not available
Isobutane	658,000 mg/m3 (4 hrs)	Not available

**Section 12: ECOLOGICAL INFORMATION**

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

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**Section 13: DISPOSAL CONSIDERATIONS**

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

**Section 14: TRANSPORT INFORMATION**

Ground..... Limited quantity.  
 Air..... Cannot be shipped by air.  
 Sea..... Limited quantity.

**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 MSDS contains all the information required by the CPR. THIS MSDS IS VALID FOR THREE YEARS.

Prepared by ..... Regulatory Affairs  
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