


Material Safety Data Sheet

1. Chemical Product and Company Information

Product Name: emzone ODOR STOP 

Product Item Numbers: # 44210 – 5.5 oz / 156 g

Product Manufacturer: Empack Spraytech Inc.
Address: 98 Walker Drive
 Brampton, Ontario, Canada L6T 4H6

Telephone: (905) 792 – 6571

Emergency Telephone: Empack: (905) 792-6571 (8:00 am – 4:00 pm ET)
 CANUTEC: (613) 996-6666 collect (24 Hours)

Product Use: Odor neutralizer.
WHMIS Classification: A, B5
TDG Classification: AEROSOLS, Class 2.1(6.1), UN1950
Under the Clear Language Regulations: refer to Section 1.17 for Limited Quantity Shipping Information, if shipping under this exemption.

Prepared By: Empack Regulatory Department
Preparation Date: March 2009
Revision Date: March 2011

2. Composition / Information on Ingredients

Hazardous Ingredients	CAS Number	Weight %	TLV (ppm)
Ethyl alcohol	64-17-5	60-100	1000
Isobutane	75-28-5	10-30	N/Av.
Propane	74-98-6	5-10	2500

3. Hazards Identification

Emergency overview:
 Gas reduces oxygen available for breathing. Contents under pressure.

Potential Health Effects:

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.

Skin Contact: Can cause skin irritation. Prolonged or repeated contact may dry the skin, brittleness, cracking.

Eye Contact: The liquid of this material can produce chilling sensation and discomfort. This product causes irritation, redness and pain.

Ingestion: Ingestion is not a likely route of exposure.

Carcinogenicity of Material: Not classified as carcinogenic.

4. First Aid Measures

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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. Treat frostbite by immediately immersing affected areas in warm water until the skin has warmed up and turned pink. Obtain medical attention IMMEDIATELY.

Eye Contact: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

Ingestion: Not applicable-product is a gas at ambient temp.

Note to Physicians: Treat symptomatically.

5. Fire Fighting Measures

Flammability Class: Flammable

Flash Point (Propellant): -117°C (-178 °F)

Flash Point (TCC deg. C)(Liquid): ~ - 27

Autoignition Temperature: 460 °C (860 °F)

Flammability Limits in Air (%): LEL: 1.8, UEL:8.5

Aerosol Flame Projection Classified as: > 45 cm but <100 cm

Extinguishing Media: Carbon dioxide, dry chemicals, foam or water fog.

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).

Sensitivity to Mechanical Impact: Not expected to be sensitive.

Sensitivity to Static Discharge: Can be sensitive.

6. Accidental Release Measure

Spill and Leak: Large spill or leak is unlikely in aerosol containers. If happens, 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.

7. Handling And Storage

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

8. Exposure Controls/Personal Protection

Engineering Controls: Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.

Respiratory Protection: Not required on a short-term basis or if exhaust ventilation is provided. Use approved NIOSH respirators for emergencies.

Eye Protection: Use chemical safety glasses.

Skin Protection: Use gloves & protective clothing against cold temperature made from viton, butyl rubber, PVC, neoprene or nitrile.

9. Physical And Chemical Properties

Physical State:	Aerosol
Appearance:	Clear mist
Odour:	Fragrance
Odour Threshold:	Not Available
Boiling Point (liquid):	80 °C
% Weight Volatile:	96-100
Vapour Density (Air = 1):	>1
Specific Gravity (Liquid):	0.68- 0.72 @ 25°C
Specific Gravity (Aerosol):	0.62- 0.66 @ 25°C
Vapour Pressure (psig):	81 @ 20°C
Evaporation Rate(liquid):	1.8 (n-Butyl Acetate = 1)
pH:	Not Applicable
Solubility in Water:	Negligible

10. Stability And Reactivity

Chemical Stability: Stable under the recommended storage and handling conditions.

Conditions of Reactivity: Avoid sources of heat and flame, and electrostatic charge.

Incompatible Materials: Strong oxidizing agent.

Hazardous Products of Decomposition: May form carbon dioxide and carbon monoxide, various hydrocarbons.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Carcinogenicity: Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.

Reproductivity: No adverse reproductive effects are anticipated.

Teratogenicity: No adverse teratogenic effects are anticipated.

Mutagenicity: No adverse mutagenic effects are anticipated.

Respiratory / Skin Sensitization Data: None known.

Synergistic Materials: None known.

12. Ecological Information

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

13. Disposal Considerations

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

14. Transport Information

Ground: Consumer Commodity, ORM-D.

Air: Cannot be shipped by air.

Sea: AEROSOLS, UN# 1950, Class 2.1.

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.

HMIS: 1 Health, 4 Fire, 1 Reactivity.

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
TLV	Threshold Limit Value
WHMIS	Workplace Hazardous Materials Information System

Disclaimer:

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.**

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