

# Material Safety Data Sheet

## 1. Chemical Product and Company Information



**Product Name:** emzone 12A A/C Cool Refrigerant

**Product Item Numbers:** # 45851 – 6 oz / 170 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)

**WHMIS Classification:** A, B5, D2B  
**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.*

**Product Use:** Environmental friendly Refrigerant.  
**Prepared By:** Empack Regulatory Department  
**Preparation Date:** March 2008  
**Last revision:** March, 2011

## 2. Composition / Information on Ingredients

Hazardous Ingredients	CAS Number	Weight %	TLV (ppm)
Alkanes	75-28-5 , 74-98-6	60-100	800

## 3. Hazards Identification

**Emergency overview:** No significant hazard.

## 4. First Aid Measures

**Eye Contact:** In case of eye contact, immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.

**Skin Contact:** For skin, wash thoroughly with soap and water. If irritation develops, get medical attention.

**Inhalation:** If affected by inhalation of vapour or spray mist, move to fresh air. Seek medical attention if necessary.

**Ingestion:** If swallowed, do not induce vomiting. Rinse mouth thoroughly with water. Drink 1-2 glasses (240 ml to 300 ml) of water to dilute the material. Obtain medical attention IMMEDIATELY.

**5. Fire Fighting Measures**

**Flash Point:** N/Av.

**Autoignition Temperature:** 891°C

**Flammability Limits in Air (%):** LFL = 1.95 ; UFL = 9.1

**Hazardous Combustion Products:** Carbon dioxide, silicon dioxide, and Formaldehyde.

**Extinguishing media:** Use Carbon dioxide, dry chemical, foam or water spray.

**6. Accidental Release Measure**

**Spill and Leak:** Wash area with significant quantity of water. Refer to section 8 of SDS for personal protection information.

**7. Handling And Storage**

Keep away from heat, sparks, and open flames. Store in a cool, dry and well-ventilated place.

**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. Ground all equipment and cylinders before use.

**Respiratory Protection:** Not required on a short-term basis or if exhaust ventilation is provided.

**Eye Protection:** Use chemical safety glasses.

**Skin Protection:** Use gloves & protective clothing.

**9. Physical And Chemical Properties**

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Colourless
<b>Odour:</b>	Amine Odour
<b>Odour Threshold:</b>	Not Available
<b>Boiling Point liq.:</b>	-37.8 °C
<b>% Weight Volatile:</b>	N/Av
<b>Specific Gravity (Water = 1):</b>	0.53
<b>pH:</b>	N/Av.
<b>Vapor Density:</b>	1.64 (est.)
<b>Vapor Pressure (psi):</b>	85 @ 21
<b>Solubility in Water:</b>	Not soluble

**10. Stability And Reactivity**

**Chemical Stability:** Stable at normal temperature & pressures.

**Incompatible Materials:** Strong oxidising agents and strong acids.

**Hazardous Products of Decomposition:** Thermal decomposition & burning may produce carbon dioxide.

**Hazardous Polymerization:** N/Av.

**11. Toxicological Information**

Complete information is not yet available.

**Carcinogenicity:** N/Av      **Reproductivity:** N/Av.

**Teratogenicity:** N/Av.      **Mutagenicity:** N/Av.

**12. Ecological Information**

Complete information is not yet available.

**13. Disposal Considerations**

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

**14. Transport Information**

**Ground:** Consumer Commodity, ORM-D.

**Air:** Cannot be shipped by air.

**Sea:** Limited quantity, AEROSOLS, UN# 1950, Class 2.1.

**15. Regulatory Information****CANADA**

CEPA - NSNR: All constituents of this product are included on the DSL.

CEPA - NPRI: Not included.

WHMIS Classification: A: Compressed Gas, B-1: Flammable Gas.

**USA**

Environmental Protection Act: Constituents of this product are included on the TSCA inventory.

OSHA (29CFR 1910.1200) Classification: Compressed Gas, Flammable Gas.

HMIS: 1 Health, 4 Fire, 1 Reactivity.

**Safety phrases:** S 23.5 Do not breathe vapour/spray. S 16 Keep away from sources of ignition -  
No smoking.

**Risk phrases:** R12: Extremely flammable. R 36/37 Irritating to eyes and respiratory system.

**16. Other Information****Abbreviations:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
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.**

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



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parties, caused by the material. Such vendees or users assume all risks with the use of the material.