



Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571

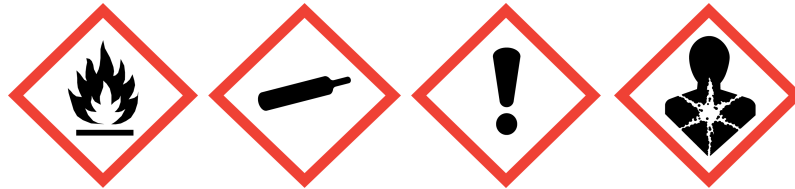
**PRODUCT: Emzone 12A A/C Stop Leak - 114 g (4 oz.)**

**CODE: EM-045856**

### SECTION 01: IDENTIFICATION

Product Item Numbers..... EM-045856  
 Product Identity..... Emzone 12A A/C Stop Leak - 114 g (4 oz.)  
 Manufacturer..... Empack Spraytech Inc.  
 98 Walker Drive  
 Brampton  
 Ontario  
 Canada  
 L6T 4H6  
 905-792-6571  
 24 hour emergency telephone number..... In Canada: Call CANUTEC (613) 996-6666 - In The United States: Call CHEMTREC (800) 424-9300.  
 Recommended Use..... A/C leak sealer.  
 Chemical Family..... Mixture.

### SECTION 02: HAZARD IDENTIFICATION



Label Elements:  
 Signal Word..... DANGER.  
 Hazard Classification:  
 Physical Hazards..... Flammable Aerosols - Category 1. Gases Under Pressure - Liquefied Gas .  
 Health Hazards..... Eye Irritation - Category 2. Respiratory Sensitization - Category 1. Skin Sensitization - Category 1. Specific Target Organ Toxicity, Repeated Exposure - Category 2.  
 Environmental Hazards..... Not Classified.  
 Hazard Statement..... H222:Extremely flammable aerosol (1). H229:Pressurized container: may burst if heated (1). H280:Contains gas under pressure; may explode if heated (L). H319:Causes serious eye irritation. H334:May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317:May cause an allergic skin reaction. H373:May cause damage to organs through prolonged or repeated exposure.  
 Precautionary Statements:  
 Prevention..... P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211:Do not spray on an open flame or other ignition source. P251:Do not pierce or burn, even after use. P272:Contaminated work clothing must not be allowed out of the workplace. P280:Wear protective gloves. P280:Wear eye protection/face protection. P264:Wash hand thoroughly after handling. P284:In case of inadequate ventilation, wear respiratory protection. P260:Do not breathe dust/fume/gas/mist/vapours/spray.  
 Response..... P302+P352:IF ON SKIN: Wash with plenty of water. P362+P364:Take off contaminated clothing and wash it before reuse. P321:For specific treatment see section 4 on this SDS. P305+P351+P338:IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313:If eye irritation persists: Get medical advice/attention. P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. P314:Get medical advice/attention if you feel unwell.  
 Storage..... P410+P412:Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.  
 Disposal..... P403:Store in a well ventilated place .  
 P501:Dispose of contents/container in accordance with local, regional, national, and/or international regulations.  
 Hazard(s) not otherwise classified (HNOC) None Known.

### SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Isobutane	75-28-5	30-60
Propane	74-98-6	30-60
Silanes	Mix	10-30
Methanol	67-56-1	0.1-1

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**SECTION 04: FIRST-AID MEASURES**

Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance.

Skin Contact..... Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Consult a poison control centre or physician immediately.

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.

Ingestion..... If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.

Most important symptoms/effects, acute .. N/A.  
and delayed

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**SECTION 05: FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media..... Dry chemical powder. Carbon dioxide. Foam, water spray or fog.

Unsuitable Extinguishing Media..... Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special Protective Equipment and Precautions for Firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

General Fire Hazards..... Extremely flammable aerosol.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid walking through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 08).

Methods and Materials for Containment and Cleaning Up 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).

Environmental Precautions..... Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**SECTION 07: HANDLING AND STORAGE**

Precautions for Safe Handling..... Read and observe all precautions and instructions on the label. Product is flammable. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Avoid contact with eyes, skin, and clothing. Avoid breathing vapour of this product. Avoid prolonged exposure. Use in well-ventilated areas.

Conditions for Safe Storage including any Incompatibilities Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10).

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

INGREDIENTS	TWA	ACGIH TLV		OSHA PEL	NIOSH
		STEL	REL		
Isobutane	Not available	1,000 ppm	Not available	Not available	Not available
Propane	Not available	Not available	1,000 ppm	Not available	Not available
Silanes	Not available	Not available	Not available	Not available	Not available
Methanol	200 ppm	250 ppm	Not available	Not available	200 ppm (TWA)
Appropriate Engineering Controls.....	Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.				
Individual Protection Measures:					
Eye/Face Protection.....	Do not get in eyes. Wear safety glasses with side-shields.				
Skin Protection.....	Chemical resistant gloves are recommended. Avoid contact with the skin. Wear appropriate chemical resistant clothing.				
Respiratory Protection.....	Use NIOSH approved respirator suitable for organic vapours.				
Thermal Hazards.....	None Known.				
General Hygiene Considerations.....	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment prior to use.				

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**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Form..... Aerosol.  
 Physical Appearance..... Clear, colorless.  
 Odor..... Mild Odor.  
 Odor Threshold (ppm)..... N/A.  
 Specific Gravity ..... N/A.  
 Vapor Pressure (@ 20°C)..... Not applicable.  
 Vapour Density (Air=1)..... N/A.  
 pH..... N/A.  
 Boiling Point liquid (°C)..... 124.65 .  
 Melting/Freezing Point (°C)..... N/A.  
 Flash Point (°C), Method..... 27. Tag Closed Cup.  
 Flashback..... No.  
 Evaporation Rate (n-Butyl Acetate = 1)..... >1 .  
 VOC Content..... > 75%.  
 Solubility in water..... Insoluble.  
 Aerosol Flame Projection..... N/A.  
 Auto Ignition Temperature (°C)..... 460°C (860°F). (Isobutane).  
 Lower Flammable Limit (% Vol)..... 1.8. (Isobutane).  
 Upper Flammable Limit (% Vol)..... 8.8. (Isobutane).  
 Coefficient of Water/Oil Distribution..... N/A.  
 Viscosity..... N/A.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity ..... Product not reactive under normal conditions of use.  
 Chemical Stability..... Material is stable under normal conditions.  
 Possibility of Hazardous Reactions..... Will not occur.  
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge. Reacts with water and acid.  
 Incompatible Materials..... Oxidizing agents. Water. Acids. Bases.  
 Hazardous Decomposition Products..... Carbon Oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Isobutane	658 mg/L (Rat - 4hrs)	Not available
Propane	658 mg/L (Rat - 4hrs)	Not available
Silanes	Not available	Not available
Methanol	3 mg/L (4hrs)	300 mg/kg (Humans); 300 mg/kg (Humans)

## Information on Likely Routes of Exposure:

Routes of entry - Inhalation..... Yes.  
 Routes of entry - Skin & Eye..... No.  
 Routes of entry - Ingestion..... No.  
 Routes of entry - Skin Absorption..... No.  
 Symptoms Related to the Physical,  
 Chemical and Toxicological Characteristics  
 Acute Toxicity..... Irritating to the eyes. Irritating to the skin.  
 Skin Corrosion/Irritation..... Causes mild skin irritation. Prolonged contact may be more irritating.  
 Serious Eye Damage/Eye Irritation..... May irritate eyes.  
 Respiratory or Skin Sensitization..... May cause an allergic skin reaction.  
 Germ Cell Mutagenicity..... No data available to indicate product or any components present at greater than 0.1% are mutagenic.  
 Carcinogenicity..... None of the ingredients are listed as possibly carcinogenic to humans by IARC or ACGIH.  
 Reproductive Toxicity..... Contains no ingredient listed as toxic to reproduction.  
 STOT - Single Exposure..... Not classified.  
 STOT - Repeated Exposure..... Specific Target Organ, Repeated Exposure- Category 2. May cause damage to the organs through prolonged or repeated exposure.  
 Aspiration Hazard..... Not classified.  
 Chronic Effects..... Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity..... Complete information is not yet available. This product has not been tested. Based on information available on its ingredients, no adverse environmental impact is anticipated under intended use in accordance with instructions .  
 Persistence and degradability ..... The product itself has not been tested.  
 Bioaccumulation Potential..... The product itself has not been tested.

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**SECTION 12: ECOLOGICAL INFORMATION**

Mobility in Soil..... The product itself has not been tested.  
 Other Adverse Effects..... None Known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Appropriate Disposal Methods..... Empty containers may be recycled. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with current local, provincial and federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

TDG (Canada- Road)..... UN1950, AEROSOLS, Class 2.1, Ltd. Qty.  
 DOT (US-Road)..... UN1950, AEROSOLS, Class 2.1, Ltd. Qty., Consumer Commodity ORM-D.  
 IMDG (International- Marine)..... UN1950, AEROSOLS, Class 2.1, Ltd. Qty.  
 IATA (International- Air)..... UN1950, AEROSOLS, Class 2.1, Ltd. Qty.

**SECTION 15: REGULATORY INFORMATION**

Canada Regulations:..... WHMIS Classification. D2B: Material causing other toxic Materials.  
 Canadian Environmental Protection Act ... All ingredients listed appear on the Domestic Substances List (DSL).  
 (CEPA)  
 US Regulations..... Environmental Protection Act: Constituents of this product are included on the TSCA inventory.  
 OSHA..... This product is considered hazardous under the Federal OSHA hazard communication standard.

**SECTION 16: OTHER INFORMATION**

Disclaimer..... The information contained herein is based on data considered accurate. No guarantee or warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. The SDS provider assumes no responsibility for personal injury or property damage to vendors or users or third parties, caused by the material. Such vendors 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. .  
 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.  
 Prepared by ..... Regulatory Affairs  
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