



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

PRODUCT: Emzone 12A A/C All-In-One - 114 g

CODE: EM-045857

SECTION 01: IDENTIFICATION

Product Item Numbers..... EM-045857
 Product Identity..... Emzone 12A A/C All-In-One - 114 g
 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..... Complete convenience with a 12A Refrigerant, UV Leak Detection Dye, Universal Oil Lubricant and O-Ring Conditioner .
 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..... Skin Irritation - Category 2. Eye Irritation - Category 2. Carcinogenicity - Category 2. Specific Target Organ Toxicity, Single Exposure - Category 3. 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). H315:Causes skin irritation. H319:Causes serious eye irritation. H351:Suspected of causing cancer. H336:May cause drowsiness or dizziness. H335:May cause respiratory irritation. 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. P264:Wash hand thoroughly after handling. P271:Use only outdoors or in a well-ventilated area. P202:Do not handle until all safety precautions have been read and understood. P201:Obtain special instructions before use. P280:Wear protective gloves/protective clothing/eye protection/face protection. P260:Do not breathe dust/fume/gas/mist/vapours/spray.
 Response..... P302+P352:IF ON SKIN: Wash with plenty of water. P332+P313:If skin irritation occurs: Get medical advice/attention. 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. P312:Call a POISON CENTER if you feel unwell. P308+P313:If exposed or concerned: Get medical advice/attention. 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. P403+P233:Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up.
 Disposal..... P501:Dispose of contents/container in accordance with local, regional, national, and/or international regulations.
 Hazard(s) not otherwise classified (HNOC) None Known.

PRODUCT: Emzone 12A A/C All-In-One - 114 g

CODE: EM-045857

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Isobutane	75-28-5	15-40
Propane	74-98-6	10-30
Methylene Chloride	75-09-2	10-30

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 .. and delayed	N/A.
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		REL	NIOSH
		STEL	STEL	PEL	STEL		
Isobutane	Not available	1,000 ppm		Not available	Not available		Not available
Propane	Not available	Not available		1,000 ppm	Not available		Not available
Methylene Chloride	25 ppm	Not available		100 ppm	200 ppm		Not established
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.						

PRODUCT: Emzone 12A A/C All-In-One - 114 g

CODE: EM-045857

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Form..... Aerosol.

Physical Appearance..... Yellow.

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 (Propellant), ° C..... -11.72°C (10.9°F).

Melting/Freezing Point (°C)..... N/A.

Flash Point (°C), Method..... -82.8. Tag Closed Cup.

Flashback..... No data .

Evaporation Rate (n-Butyl Acetate = 1)..... >1 .

VOC Content..... No data.

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
Methylene Chloride	77.01 mg/L (Rat - 4hrs)	1,400 mg/kg (Oral - Rat); >2,000 mg/kg (Dermal - Rabbit)

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 information is available, and no adverse effects are expected.

Carcinogenicity..... Dichloromethane: IARC: Group2B: Possible human carcinogen; ACGIH: A3: Confirmed Animal Carcinogen; NTP: Anticipated Human Carcinogen; OSHA: + (proven).

Reproductive Toxicity..... Contains no ingredient listed as toxic to reproduction.

STOT - Single Exposure..... Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness.

STOT - Repeated Exposure..... Specific Target Organ, Repeated Exposure- Category 2. May cause damage to the organs through prolonged or repeated exposure.

PRODUCT: Emzone 12A A/C All-In-One - 114 g

CODE: EM-045857

SECTION 11: TOXICOLOGICAL INFORMATION

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.
 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
 Latest Revision FEB 14/2019