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

PRODUCT: emzone Signal Air Horn Double Pack 227g (8 oz.) **CODE: P7-046120**

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Item Numbers	P7-046120
Product Identity	emzone Signal Air Horn Double Pack 227g (8 oz.)
Manufacturer	Empack Spraytech Inc. 98 Walker Drive Brampton Ontario Canada L6T 4H6 905-792-6571
24 hour emergency telephone number	CHEM TREC: 800-424-9300.
Recommended Use	Signal air horn for boating, sports, outdoors and industrial sites.

SECTION 02: HAZARDS IDENTIFICATION

Hazard Classification:	
Physical Hazards	Gases Under Pressure - Compressed gas. Aerosols - Category 3.
Health Hazards	Skin Irritation - Category 3. Eye Damage/Irritation - Category 2B.
Environmental Hazards	Not Classified.
Label Elements:	
Signal Word	WARNING.
Hazard Statement	Contains gas under pressure; may explode if heated. Pressurized container: may burst if heated. Causes mild skin irritation. Causes eye irritation.
Precautionary Statements:	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Wash hand thoroughly after handling.
Response	If Skin Irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.
Disposal	Dispose of contents/ container in accordance with local/regional/national/international regulations.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
1,1,1,2 Tetrafluoroethane	811-97-2	100

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	Wash exposed area with soap and water. Get medical attention.
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. Get medical attention if irritation persists.
Ingestion	Ingestion is unlikely to occur. If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention. Keep respiratory tract clear. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.
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.

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SECTION 05: FIRE FIGHTING MEASURES

General Fire Hazards	Non Flammable Aerosol.
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.
Suitable Extinguishing Media	Dry chemical powder. Carbon dioxide. Foam, water spray or fog.
Specific Hazards Arising from the Chemical.	In case of fire, the following can be released: Carbon Oxides (CO, CO2), Other unidentified Organic Compounds.
Hazardous Combustion Products	Hydrogen fluoride. Oxides of carbon.
Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.

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	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.
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	Contents under pressure. Avoid breathing vapour of this product. Avoid contact with skin and eyes. Avoid prolonged exposure. Use in well-ventilated areas. Keep container tightly closed. Do not enter confined spaces unless adequately ventilated. Use in well ventilated area.
Conditions for Safe Storage including any Incompatibilities	Pressurized container. Keep container tightly closed in a dry, cool and well-ventilated place.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV		OSHA PEL		NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL
1,1,1,2 Tetrafluoroethane	Not available	Not available	Not available	Not available	Not available

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. At all times wear rubber gloves impervious to the material, such as PVC or nitrile.
Respiratory Protection	Use approved NIOSH respirators for emergencies. Not normally required if good ventilation is maintained .
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	Compressed Gas.
Physical Appearance	Clear- Colorless.
Odor	Ether odor.
Odor Threshold (ppm)	N/A.
Specific Gravity (Aerosol)	Not available.
Specific Gravity	0.990-1.300.
Aerosol Vapour Pressure (psig, 21°C)	85.7 @21.1 °C.
Vapour Density (Air=1)	3.54.
pH	N/A.
Initial Boiling Point/Boiling Range (°C)	-26.5.
Melting/Freezing Point (°C)	N/A.
Flash Point (°C), Method	Not flammable.
Flashback	N/A.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Evaporation Rate (n-Butyl Acetate = 1).....	No data.
VOC Content.....	N/A.
Solubility in water.....	0.9 g/L (in water).
Aerosol Flame Projection.....	N/A.
Auto Ignition Temperature (°C).....	743.
Lower Flammable Limit (% Vol).....	Not available.
Upper Flammable Limit (% Vol).....	Not available.
Coefficient of Water/Oil Distribution.....	N/A.
Viscosity.....	N/A.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	
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.
Incompatible Materials.....	Keep away from heat. Strong oxidizing agents. Alkali and alkaline earth metals, powdered aluminium, zinc, magnesium and strong oxidizers, since they may react or accelerate decomposition.
Hazardous Decomposition Products.....	See Section 05. Halogens, halogen acids (HF), Carbon monoxide, Carbon dioxide, and carbonyl halides.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
1,1,1,2 Tetrafluoroethane	1,500,000 ppm (rat - 4h, inhalation)	Not available

Information on Likely Routes of Exposure:	
Routes of entry - Inhalation.....	May cause irritation of respiratory tract.
Routes of entry - Skin & Eye.....	May cause irritation.
Routes of entry - Ingestion.....	May cause irritation.
Routes of entry - Skin Absorption.....	May cause skin irritation.
Symptoms Related to the Physical, Chemical and Toxicological Characteristics	
Acute Toxicity.....	Contact with skin and eyes may cause mild to moderate irritation and frostbite. Symptoms may include redness, pain, numbness, prickling and itching. Inhalation of vapours causes irritation to the nose, throat and respiratory tract, with coughing, wheezing, dizziness, headache, drowsiness, nausea and vomiting. Inhalation of higher concentrations may result in central nervous system depression and unconsciousness. High vapour concentrations reduce oxygen available for breathing, resulting in asphyxiation.
Skin Corrosion/Irritation.....	N/A.
Serious Eye Damage/Eye Irritation	
Respiratory or Skin Sensitization.....	N/A.
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.....	No information is available.
STOT - Single Exposure.....	Not classified.
STOT - Repeated Exposure.....	Not classified.
Aspiration Hazard.....	Not classified.
Chronic Effects.....	No information is available, and no adverse effects are expected.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	This material is non-toxic to Daphnia magna (4-hr EC50 930 mg/L), rainbow trout (96 -hr LC50 450 mg/L) and bacteria (16 -hr EC10>730 mg/L).
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.....	Dispose in accordance with local, provincial and federal regulations.

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SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road).....	AEROSOLS, Class 2.2, UN1950.
DOT (US-Road).....	AEROSOLS, Class 2.2, UN1950, LTD QTY, Consumer Commodity ORM-D.
IMDG (International- Marine).....	AEROSOLS, Class 2.2, UN1950.
IATA (International- Air).....	AEROSOLS, Class 2.2, UN1950, LTD QTY .

SECTION 15: REGULATORY INFORMATION

Canada Regulations:.....	WHMIS Classification. A: Compressed gas.
Canadian Environmental Protection Act ..... (CEPA)	All ingredients listed appear on the Domestic Substances List (DSL).
US Regulations	
TSCA Inventory Status.....	All components are listed on TSCA .
OSHA.....	This product is considered hazardous under the Federal OSHA hazard communication standard.
California Proposition 65.....	This product does not contain any chemical(s) known to the state of California to cause cancer or reproductivity toxicity.

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 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 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.
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