



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

PRODUCT: emzone Non-Flammable Signal Air Horn Medium - 85 g (3 oz.)

CODE: P7-046900

SECTION 01: IDENTIFICATION

Product Item Numbers..... P7-046900
 Manufacturer..... Empack Spraytech Inc.
 98 Walker Drive
 Brampton
 Ontario
 Canada
 L6T 4H6
 905-792-6571
 Product Identity..... emzone Non-Flammable Signal Air Horn Medium - 85 g (3 oz.)
 24 hour emergency telephone number..... In Canada: Call CANUTEC (613) 996-6666 - In The United States: Call CHEMTREC (800) 424-9300.
 Recommended Use..... Signal air horn for boating, sports, outdoors and industrial sites.

SECTION 02: HAZARD IDENTIFICATION



Label Elements:
 Signal Word..... WARNING.
 Hazard Classification:
 Physical Hazards..... Aerosols - Category 3. Gases Under Pressure - Compressed gas.
 Health Hazards..... Not Classified.
 Environmental Hazards..... Not Classified.
 Hazard Statement..... H280:Contains gas under pressure; may explode if heated (C). H229:Pressurised container: May burst if heated (3).
 Precautionary Statements:
 Prevention..... P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251:Do not pierce or burn, even after use.
 Response..... None .
 Storage..... P410+P412:Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.
 P403:Store in a well ventilated place .
 Disposal..... None.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
trans-1,3,3,3-Tetrafluoroprop-1-ene	29118-24-9	80-100

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 .. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct and delayed 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.

PRODUCT: emzone Non-Flammable Signal Air Horn Medium - 85 g (3 oz.)**CODE: P7-046900****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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
trans-1,3,3,3-Tetrafluoropr op-1-ene	800 ppm	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.....	Not required on a short-term basis.					
Skin Protection.....	Chemical resistant gloves are recommended. Avoid contact with the skin. Wear appropriate chemical resistant clothing.					
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).....	Not available.
Aerosol Vapour Pressure (psig, 21°C).....	1-5.
Vapour Density (Air=1).....	4.0.
pH.....	7.0 - 8.0.
Initial Boiling Point/Boiling Range (°C).....	-19. @ 101.3 kPa.
Freezing Point (° C).....	-156. @ 101.3 kPa.
Flash Point (°C), Method.....	Not applicable.
Flashback.....	Not applicable.
Evaporation Rate (n-Butyl Acetate = 1).....	Not applicable.
Solubility in water.....	0.3 g/l.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Aerosol Flame Projection..... Not available .
 Auto Ignition Temperature (°C)..... 368.
 Coefficient of Water/Oil Distribution..... log Pow 1.6.
 Viscosity..... Not available.

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..... Halogens, halogen acids (HF), Carbon monoxide, Carbon dioxide, and carbonyl halides.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
trans-1,3,3,3-Tetrafluoroprop-1-ene	>207,000 ppm (Rat - 4 Hours)	Not applicable
Information on Likely Routes of Exposure: Routes of entry - Inhalation..... Yes. Routes of entry - Skin & Eye..... Yes. Routes of entry - Ingestion..... No. Routes of entry - Skin Absorption..... No. Symptoms Related to the Physical, Chemical and Toxicological Characteristics Acute Toxicity..... Harmful if inhaled. Contact with skin and eyes may cause mild to moderate irritation and frostbite. Symptoms may include redness, pain, numbness, pricking 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.....	Not expected to cause skin irritation. If irritation occurs, contact medical center.	
Serious Eye Damage/Eye Irritation.....	Direct contact with eyes causes temporary irritation.	
Respiratory or Skin Sensitization.....	Not expected to be a skin or respiratory sensitizers.	
Germ Cell Mutagenicity.....	No information is available, and no adverse effects are expected.	
Carcinogenicity.....	None of the ingredients are listed as possibly carcinogenic to humans by IARC or ACGIH.	
Reproductive Toxicity.....	This product is not expected to cause reproductive or developmental effects.	
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..... May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment.
 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.

SECTION 14: TRANSPORT INFORMATION

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

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SECTION 15: REGULATORY INFORMATION

Canada Regulations:..... Refer to Section 2 for a WHMIS 2015 Classification for this product.
 Canadian Environmental Protection Act ... All ingredients listed appear on the Domestic Substances List (DSL).
 (CEPA)
 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 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.

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