



Chemical Name: Air Horn

Manufacturer: Sports Marine


Container size: 8oz.

Location: VLA

Disposal: Place empty container in trash.

Material Safety Data Sheet

1. Chemical Product and Company Information

Product Name: emzone Signal Air Horn 

Product Item Numbers: #46100 - 8oz/227g #46210 - 8oz/227g
#46120 - 8oz/227g

Product Manufacturer: Empack, a Division of EMU Polishes 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)

Product Use: Signal air horn for boating, sports, outdoors & industrial sites.
Prepared By: Empack Regulatory Department
Preparation Date: Sept 2007

2. Composition / Information on Ingredients

Hazardous Ingredients	CAS Number	Weight %	TLV (ppm)
1,1,1,2 Tetrafluoroethane	811-97-2	100	Not Available

3. Hazards Identification**Emergency overview:**

High vapour concentrations may cause drowsiness. Gas reduces oxygen available for breathing. Contents under pressure. Can decompose at high temperatures forming toxic gases.

Potential Health Effects:

Inhalation: Dense vapour of this material may reduce the available oxygen for breathing. Prolonged exposure to an oxygen-deficient atmosphere may be fatal.

Skin Contact: Rapid evaporation may cause frostbite. Evaporation of liquid from the skin can produce chilling sensation. Skin injury does not result. Systemic toxic concentrations are unlikely to be absorbed through the skin in humans.

Skin Absorption: Not likely to be absorbed through the skin.

Eye Contact: The liquid of this material can produce chilling sensation and discomfort. This product causes irritation, redness and pain.

Ingestion: Product is a gas. Ingestion is not a likely route of exposure.

Carcinogenicity of Material: Not classified as carcinogenic.

4. First Aid Measures

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Do not give adrenaline, epinephrine or similar drugs following exposure to this products.

Skin Contact: Treat frostbite by immediately immersing affected areas in warm water until the skin has warmed up and turned pink. Obtain medical attention IMMEDIATELY.

Eye Contact: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

Ingestion: Not applicable-product is a gas at ambient temp.

Note to Physicians: Treat symptomatically.

5. Fire Fighting Measures

Flammability Class: None Flammable

Flash Point: N/Ap- Gas

Autoignition Temperature: 743 °C

Flammability Limits in Air (%): LEL: None, UEL:None.

Fire and Explosion Hazards: May decompose on contact with flames or extremely hot metal surfaces to produce toxic and corrosive products. Thermal decomposition products are toxic and may include carbonyl halides, Hydrofluoric Acid and oxides of carbon.

Sensitivity to Mechanical Impact: Not expected to be sensitive.

Sensitivity to Static Discharge: Not expected to be sensitive

6. Accidental Release Measure

Spill and Leak: Large spill or leak is unlikely in aerosol containers. If happens, ventilate enclosed spaces and disperse gas with floor-level forced-air ventilation. Exhaust vapors outdoors. Do not smoke or operate internal combustion engines. Remove flames and heating elements.

7. Handling And Storage

Do not breathe vapour or mist. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Do not enter confined spaces unless adequately ventilated.

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.

Respiratory Protection: Not required on a short-term basis or if exhaust ventilation is provided. Use approved NIOSH respirators for emergencies.

Eye Protection: Use chemical safety glasses.

Skin Protection: Use gloves & protective clothing against cold temperature made from viton, butyl rubber, PVC, neoprene or nitrile.

9. Physical And Chemical Properties

Physical State:	Liquefied Gas	
Appearance:	Colourless	
Odour:	Ether Odour	
Odour Threshold:	Not Available	
Boiling Point:	-26.4°C (-15.5°F)	
% Weight Volatile:	100	
Vapour Density (Air = 1):	3.54	
Specific Gravity (Water = 1):	1.21 @ 25°C	
Vapour Pressure (psia):	85.7 psia @ 21.1°C	
Evaporation Rate:	1 (n-Butyl Acetate = 1)	
pH:	Not Applicable	
Solubility in Water:	0.9 g/l @ 25°C	
Molecular Weight	102.03	
n-Octanol/ Water Partition coef. Log Pow:	1.06	
Other Physical Data	Decomposing temperature:	>370 C (700 F)
	Critical temperature:	101 C
	Critical Pressure:	4.07 MPa (40.7 bar)

10. Stability And Reactivity

Chemical Stability: Stable at normal temperature & pressures.

Incompatible Materials: Alkali and alkaline earth metals, powdered aluminium, zinc, magnesium and strong oxidizers, since they may react or accelerate decomposition.

Hazardous Products of Decomposition: Halogens, halogen acids(HF), Carbon monoxide, Carbon dioxide, and carbonyl halides.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

1,1,1,2-Tetrafluoroethane (HFC-134a) LC50 (Inhal'n, Mouse, 4h) = >500,000 ppm

Carcinogenicity: Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.

Reproductivity: No adverse reproductive effects are anticipated.

Teratogenicity: No adverse teratogenic effects are anticipated.

Mutagenicity: No adverse mutagenic effects are anticipated.

Respiratory / Skin Sensitization Data: None known.

Synergistic Materials: None known.

12. Ecological Information

This material is practically non-toxic to Daphnia magna (48-hr EC50 930 mg/l), rainbow trout (96-hr LC50 450 mg/l) and bacteria (16-hr EC10>730 MG/L).

13. Disposal Considerations

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

14. Transport Information

Ground: Consumer Commodity, ORM-D.

Air: Cannot be shipped by air.

Sea: Limited quantity, 1, 1, 1, 2 -Tetrafluoroethane, UN# 3159, Class 2.2.

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.

USA

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

OSHA (29CFR 1910.1200) Classification: Compressed Gas.

HMIS: 1 Health, 0 Fire, 1 Reactivity.

16. Other Information**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
TLV	Threshold Limit Value
WHIMIS	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.**

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