

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BOAT HORN

PART NUMBER:

GENERAL USE: Audible signaling device

PRODUCT DESCRIPTION: Aerosol container, clear non flammable liquid.



DISTRIBUTOR'S NAME

Unified Marine, Inc.

DATE PREPARED: March 19, 2007

SUPERSEDES: November 28, 2005

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ADDRESS (NUMBER, STREET, P.O. BOX)

1485 Railhead Boulevard

TELEPHONE NUMBER FOR INFORMATION

(239) 594-7997

(CITY, STATE AND ZIP CODE)

COUNTRY

EMERGENCY TELEPHONE NUMBER

Naples, FL 34110

USA

(800) 282-8725

MANUFACTURER'S NAME

Not specified

ADDRESS (NUMBER, STREET, P.O. BOX)

TELEPHONE NUMBER FOR INFORMATION

(CITY, STATE AND ZIP CODE)

COUNTRY

EMERGENCY TELEPHONE NUMBER

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	% (by weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES Full Text Section 16
1,1,1,2-Tetrafluoroethane (a)	100	811-97-2	212-377-0	NC	Not classified

(a) Product is listed as a greenhouse gas identified by the IPCC (Intergovernmental Panel on Climate Change) as both natural and anthropogenic substance that has been recognized by the international scientific community as having the potential to bring about climate change.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Aerosol, non-flammable, high pressure gas; avoid contact and inhalation. Container explosion may occur in fire conditions. Hazard symbol: Not classified Risk Phrases: None

POTENTIAL HEALTH EFFECTS

INHALATION: Exposure to HFC-134a at high concentrations may affect the nervous system and produce an anesthetic effect. Exposure to an oxygen deficient atmosphere may cause headache, dizziness, drowsiness, cyanosis, lack of muscle control followed by collapse.

SKIN: None expected, however, prolonged contact may cause irritation. Direct spray on skin may cause frostbite.

EYES: This product is an eye irritant. Contact with the eyes will cause irritation and possible frostbite.

INGESTION: Not a likely ingestion hazard due to low boiling point, however, ingestion of super cooled liquid may cause frostbite, gastric distress, vomiting and diarrhea.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; if symptoms persist seek medical attention.

SKIN: Treat symptomatically as frostbite, if irritation persists, seek medical attention.

EYES: Check for and remove contact lenses. Flush eyes with clear running water while holding eyelids open; seek medical attention.

INGESTION: Give two glasses of water for dilution; DO NOT induce vomiting; seek medical attention; never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product is not considered flammable, however, vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame or high intensity source of heat such as welding spark. Products of combustion include compounds of carbon, fluorine, hydrogen and oxygen, including carbon monoxide. Toxic gases will form upon combustion.

EXTINGUISHING MEDIA

Carbon dioxide, water, dry chemical, chemical foam

FIRE FIGHTING PROCEDURES

Fire fighters should wear NIOSH / MSHA approved, self - contained breathing apparatus for possible exposure to hydrogen fluoride.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame or high intensity source of heat such as welding spark. Contents under pressure. Do not use or store near heat or ignition sources.

HAZARDOUS COMBUSTION PRODUCTS

In case of a fire, hydrogen fluoride, oxides of carbon, and toxic smoke may be produced.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate and ventilate area. Allow gas to escape to air. Remaining liquid may be absorbed on to an approved absorbent and placed in an approved container for disposal.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, keep away from sources of heat. Do not puncture container. Do not attempt to refill container. Maintain well ventilated work areas to minimize exposure when handling this material. Do not heat above 126° F (52° C)

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH			
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
1,1,1,2-Tetrafluoroethane (a)	1000	4240						

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.

EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR Colorless liquefied gas, ether odor		VAPOR PRESSURE 96 psia @ 25° C (77° F)	
pH Not applicable		SPECIFIC GRAVITY (WATER = 1) 1.208	
BOILING POINT / BOILING RANGE - 15.7° F (- 26.5° C) @ 736 mm Hg		SOLUBILITY IN WATER Slight - 0.15 WT% @ 25° C (77° F) @ 14.7 psia	
FLASH POINT Non-flammable		VISCOSITY Liquefied gas	
FLAMMABLE LIMITS LEL: None UEL: None		VAPOR DENSITY (AIR = 1) 3.6 @ 25° C (77° F)	
AUTOIGNITION TEMPERATURE > 750° C (> 1382° F)		EVAPORATION RATE (CCL4 = 1) > 1	
SECTION 10 - STABILITY AND REACTIVITY			
STABILITY UNSTABLE: STABLE: X		CONDITIONS TO AVOID: Extreme temperatures.	
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.			
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X		CONDITIONS TO AVOID: None	
SECTION 11 - TOXICOLOGICAL INFORMATION			
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
1,1,1,2-Tetrafluoroethane (a)	811-97-2 212-377-0	Not established	1500 gm / m3 / 4H Inhalation - rat
SECTION 12 - ECOLOGICAL INFORMATION			
No adverse ecological effects are expected.			
SECTION 13 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. This product may produce concentrated hazardous vapors in a disposal container creating a dangerous environment. Refer to 40 CFR 260 - 299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.			
SECTION 14 - TRANSPORT INFORMATION			
PROPER SHIPPING NAME: Consumer Commodity - DOT Exemption 10232 Product may be shipped internationally as UN1950 class 2.2, non-flammable aerosol, less than 1 liter.			
DOT HAZARD CLASS / Packaging Group: ORM - D / None REFERENCE: 49 CFR 173.306 UN / NA IDENTIFICATION NUMBER: None LABEL: CONSUMER COMMODITY HAZARD SYMBOLS: None		IATA HAZARD CLASS / Packaging Group: See Note below IMDG HAZARD CLASS: See Note below RID / ADR Dangerous Goods Code: See Note below UN TDG Class / Packaging Group: See Note below Hazard Identification Number (HIN): None	
Note: Transportation information provided is for reference only. Client is urged to consult 49 CFR 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.			

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

Immediate health, Delayed health, Sudden release of pressure

313 Reportable Ingredients:

None

CERCLA (USA - Comprehensive Response Compensation and Liability Act)

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: A

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 1

VbK Index: not applicable

RISK PHRASES:

Not classified

SYMBOL(S) REQUIRED FOR LABEL

Not classified

SAFETY PHRASES:

S15 Keep away from heat.
S23 Do not breathe vapour.

SECTION 16 - OTHER INFORMATION

Notes & full R-Phrase text

Not classified

HMIS HAZARD RATINGS

HEALTH

1*

* = Chronic Health Hazard

2 = MODERATE

FLAMMABILITY

0

0 = INSIGNIFICANT

3 = HIGH

PHYSICAL HAZARD

0

1 = SLIGHT

4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT

B

Safety Glasses, Gloves

REVISION SUMMARY:

This MSDS has been revised in the following sections:

Complete format revision

MSDS Prepared by: Comprehensive Data Base, Inc.

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(863) 644 - 3298 www.compdatabase.com or www.msds.cc

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.