

Safety Data Sheet

SECTION 1 - PRODUCT & COMPANY INFORMATION

PRODUCT NAME: Big ol' Blow Hard
DESCRIPTION: Aerosol Horn
USE: Marine Signaling Device

MANUFACTURER: Mainstream Engineering Corporation
 200 Yellow Place
 Rockledge, Florida 32955

INFORMATION TELEPHONE: 321-631-3550

EMERGENCY TELEPHONE: 800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS):

Gases under pressure

HAZARD STATEMENT(S):

H280 Contains gas under pressure; may explode if heated

PICTOGRAM(S):



SIGNAL WORD: Warning

PRECAUTIONARY STATEMENT(S):

P102 Keep out of reach of children

P251 Do not pierce or burn, even after use

P410+403

Protect from sunlight. Store in a well-ventilated place.

P501 Dispose of contents/ container to in accordance with local/regional/national regulations.

HAZARDS NOT OTHERWISE CLASSIFIED BY GHS: none

SECTION 3 - PRODUCT COMPOSITION INFORMATION

COMPONENT	CAS #	AMOUNT
1,1,1,2-Tetrafluoroethane	811-97-2	100%

SECTION 4 - EMERGENCY & FIRST-AID PROCEDURES

SKIN: If frostbite occurs, flush affected areas with lukewarm water. Do not use hot water. Call a physician.

EYES: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention immediately.

INGESTION: Ingestion is not considered a potential route of exposure.

INHALATION: Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: This product is a nonflammable aerosol. Use an extinguishing agent which is appropriate for the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus in positive pressure mode with confined face piece.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Never use a welding or cutting torch on or near pressurized container.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Use personal protective equipment outlined in Section 8 for normal handling and clean-up of this material. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Prevent release to the environment if possible. Do not flush product into drains or sewer lines.

MATERIALS FOR CONTAINMENT AND CLEAN-UP: Use a nonflammable absorbent material for clean-up. Place in container for disposal according to local regulations.

REFERENCE TO OTHER SECTIONS: For additional disposal directions and reporting requirements, please refer to Section 13.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use good personal hygiene practices in accordance with this material. Avoid getting the product in eyes or on skin. Keep upright when in use. Do NOT spray when container is more than 45 degrees off vertical or inverted. Wear cold-insulating gloves if exposure to liquid or aerosol stream is likely. Wear protective gloves/eye protection.

STORAGE: Store in a cool, dry location. Do not store near heat, flame, strong oxidants. Maintain adequate ventilation. Keep away from children.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION MEASURES

EXPOSURE LIMITS: No data available

PERSONAL PROTECTIVE EQUIPMENT: Please wear appropriate person protective equipment for handling of this product as indicated.

EYE PROTECTION: Safety glasses.

SKIN PROTECTION: Use gloves of an appropriate material to minimize exposure.

RESPIRATORY PROTECTION: Engineering or administrative controls should be implemented to reduce exposure during normal handling of this product. If the workplace exposure limits are exceeded (ventilation is not adequate), then a NIOSH/MSHA approved air supplied respirator is advised.

SECTION 9 - PHYSICAL AND CHEMICAL DATA

APPEARANCE:	Gas
ODOR:	Slight, ether like
ODOR THRESHHOLD:	No data available
pH:	Not applicable
FLASH POINT:	Not applicable
AUTOIGNITION TEMPERATURE:	Not applicable
FLAMMABILITY:	Nonflammable
EXPLOSION LIMITS:	Nonflammable
MELTING POINT:	Not applicable
BOILING POINT (760 mm Hg):	-26.6°C
VAPOR PRESSURE:	592 kPa absolute at 21.1°C
VAPOR DENSITY (AIR = 1):	3.5
SPECIFIC GRAVITY (WATER = 1):	No data available
SOLUBILITY:	No data available
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	Not applicable
VOC CONTENT:	100 %
EVAPORATION RATE:	No data available
(N-BUTYL ACETATE = 1)	

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: No data available.

CHEMICAL STABILITY: Stable when handled or stored under the recommended conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None

HAZARDOUS POLYMERIZATION: Product will not undergo hazardous polymerization.

CHEMICAL INCOMPATIBILITY: Alkali metals, alkaline earth metals, powdered metals, powdered metal salts.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce: Fluorine. Carbonyl fluoride.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRIMARY ROUTES OF ENTRY: Inhalation, skin absorption, skin contact, eye contact.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE INHALATION TOXICITY:

LC50/rat: 567000 ppm

ACUTE SYMPTOMS: Severe shortness of breath, narcosis, irregular cardiac activity. Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Aerosol can reach sub-zero temperatures; exposure to aerosol can lead to frostbites.

CHRONIC EFFECTS: Not applicable

MUTAGENICITY: No evidence of a mutagenic effect.

TERATOGENICITY: No evidence of a teratogenic effect (birth defect).

SENSITIZATION: No evidence of a sensitization effect.

REPRODUCTIVE: No evidence of a reproductive effect.

CARCINOGENICITY

IARC No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

NTP No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.



SECTION 12 - ECOLOGICAL INFORMATION

TOXICITY: No ecological damage known to be caused by this product.

PERSISTENCE AND DEGRADABILITY:

No data available.

BIOACCUMULATION: This substance is not considered to be persistent, bio accumulating nor toxic (PBT).

SOIL TO GROUNDWATER MOBILITY: No data available

OTHER ADVERSE EFFECTS:

Global Warming Potential

(GWP) (CO₂ = 1) 1370

Ozone Depletion Potential

(ODP) (R11 = 1) 0

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Do not flush to drains or sewer. Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer to assure compliance.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Refrigerant R134a or 1,1,1,2-Tetrafluoroethane

UN Number: 3159

DOT Class: 2.2 Non-flammable compressed gas

Limited quantity exception per 49 CFR 173.306(a)(3)

SECTION 15 - REGULATORY INFORMATION

U.S. Toxic Substances Control Act: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

Federal/State/Local Regulations: This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the conditions of the statute.

SECTION 16 - OTHER INFORMATION

HMIS RATING:

Health hazard: 2

Flammability: 0

Physical Hazard: 0

The information contained herein is believed to be accurate and is offered in good faith. The above information is, in part, based on material safety data sheets supplied by the vendors of the raw materials used in this product. Because product use is beyond our control, no warranty is given, expressed, or implied. Mainstream Engineering Corporation cannot assume any liability for the use of information contained herein or from damage resulting from handling or contact with the above product. To determine applicability or effect of any law or regulation with respect to the product, users should consult a legal advisor or appropriate governmental agency.

PREPARATION INFORMATION

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