

SAFETY DATA SHEET

Wolo iHorn® Part #497

Section 1: Identification Of the Substance/Mixture And Of The Supplier

Supplier Wolo Mfg. Corp. 1 Saxwood St. Deer Park, NY 11729 Telephone Number: 631-242-0333	Manufacturer Wolo Mfg. Corp. 1 Saxwood St. Deer Park, NY 11729 Telephone Number: 631-242-0333
Supplier Emergency Contacts & Phone Number 631-242-0333	Manufacturer Emergency Contacts & Phone Number 631-242-0333

Issue Date: 08/17/2015

Product Name: Wolo iHorn® Part #497

Chemical Name: 1,1,1,2-tetrafluoroethane

CAS Number: 811-97-2

Chemical Family: hydrofluorocarbon refrigerant gas

Chemical Formula: CF₃-CH₂F

Product Code: #497

Synonyms

Norflurane

R-134a

Product/Material Uses

The Model 497 is a compact hand held horn, making it easy to be carried. iHorn delivers a power blast that will be heard with the simple press on the horn button. Ideal for marine, jogging, camping, sports events and anytime a powerful alerting sound is needed.

Section 2: Hazards Identification



Hazard Classification(s)

HAZARD CLASSIFICATION(S):

Gases Under Pressure - Liquefied Gas

Specific Target Organ Toxicity, Single Exposure: Category 2 (CNS, Cardiac)

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

Contains gas under pressure; may explode if heated (H280)

May cause damage to organs (H371) - central nervous system, cardiovascular

PRECAUTIONARY STATEMENTS:

P260 - Do not breathe gas.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P410+P403 - Protect from sunlight. Store in a well-ventilated place.

P501 - Dispose of contents/container in accordance with local, state, federal and international regulation.

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Section 3: Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
1,1,1,2-tetrafluoroethane	811-97-2	100

Section 4: First Aid Measures

Eye

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin

For exposure to liquid, immediately warm frostbite area with warm water (not to exceed 105 deg. F). In case of massive exposure, remove clothing while showering with warm water. Get medical attention.

Ingestion

Not applicable - product is a gas at ambient temperatures.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. Do not give adrenaline, epinephrine or similar drugs following exposure to this product.

Section 5: Fire Fighting Measures

Flash Point Method: non-flammable

Lower Explosive Limit: not applicable

Upper Explosive Limit: not applicable

Fire And Explosion Hazards

May decompose on contact with flames or extremely hot metal surfaces to product toxic and corrosive products. Liquid and gas under pressure, overheating or overpressurizing may cause gas release and/or violent cylinder bursting. Container may explode if heated due to resulting pressure rise. Some mixtures of HFCDs and/or HFCs, and air or oxygen may be combustible if pressurized and exposed to extreme heat or flame.

NFPA Level 1 Aerosol

Extinguishing Media

Use extinguishing media appropriate for surrounding fire. Use water spray to keep containers cool that are exposed to heat or flame.

Fire Fighting Instructions

Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Warning! Contents under pressure. Container may rupture under fire conditions. Decomposition may occur.

Section 6: Accidental Release Measures

Wear protective equipment specified. Avoid all sources of ignition; heat, sparks and open flames. Use Halogen leak detector or other suitable means to locate leaks or check atmosphere. Keep upwind. Evacuate enclosed spaces and disperse gas with floor-level forced-air ventilation. Exhaust vapors outdoors. Do not smoke or operate internal combustion engines.

Increase area ventilation. Do not puncture or incinerate container. Contents under pressure. Do not allow entry to the atmosphere. Recover, reclaim or recycle when practical.

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Section 7: Handling And Storage

Handling And Storage Precautions

Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well-ventilated area. Do not reuse this container. CAUTION: COMPRESSED GAS. Keep away from heat and open flame. Do not puncture, incinerate or store above 120 deg F. Do not store in passenger compartment of automobile. Should not be mixed with air for leak testing or used for any other purpose above atmospheric pressure. Protect from light and heat.

Section 8: Exposure Controls/Personal Protection

Engineering Controls

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Showers, eyewash stations.

Eye/Face Protection

Chemical goggles; also wear a faceshield if splashing hazard exists.

Skin Protection

Avoid skin contact. Wear protective clothing and gloves.

Respiratory Protection

Use in a well-ventilated area. An approved respirator (i.e., NIOSH, etc.) should be worn when exposures are expected to exceed applicable limits.

Ingredient(s) - Exposure Limits

1,1,1,2-tetrafluoroethane
AIHA WEEL: 1,000 ppm

Section 9: Physical And Chemical Properties

Appearance

Clear, colorless liquefied gas

Odor

Mild, ether-like

Chemical Type: Mixture

Physical State: Gas

Melting Point: -101 °C

Boiling Point: -15.5 °F -26.5 °C

Specific Gravity: 1.208

Molecular Weight: 102.03

Percent Volatiles: 100

Percent VOCs: 0

Vapor Pressure: 96 psig @ 25C

Vapor Density: 3.6 (air=1.0) @ 25C

pH Factor: not determined

Solubility: 0.95% @ 70 deg F

Viscosity: not applicable

Evaporation Rate: >1 (ether=1)

Partition Coefficient (n-octanol/water): not available

Flash Point: not available

Flammability (solid, gas): not applicable

Lower Explosive Limit (LEL %): not applicable

Upper Explosive Limit (UEL %): not applicable

Autoignition Temperature: not applicable

Decomposition Temperature: not available

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Section 9: Physical And Chemical Properties - Continued

Ozone Depletion Potential: 0 (1.0 relative to R-11)

Section 10: Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Keep away from heat, sparks and flame. Do not expose to heat or store at temperatures above 120 F.

Incompatible Materials

Avoid finely powdered metals, such as aluminum, magnesium or zinc. Strong oxidizers. Avoid contact with alkali or alkaline earth metals.

Hazardous Decomposition Products

Thermal decomposition products include highly toxic and corrosive halogen acids (e.g., hydrofluoric acid, carbonyl fluoride) by thermal decomposition.

Section 11: Toxicological Information

Eye Effects

Liquid contact can cause severe irritation, redness, tearing, blurred vision, and possible freeze burns.

Skin Effects

Contact with evaporating liquid can cause frostbite.

Acute Oral Effects

Liquid ingestion may cause frostbite to exposed skin. Aspiration hazard! Frostbite and freezing of tissue can cause laryngeal or pulmonary edema, and gastrointestinal perforation.

Acute Inhalation Effects

Inhalation of vapor may produce anesthetic effects and feeling of euphoria. Prolonged overexposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness and death from asphyxiation, depending on the concentration and time of exposure. Inhalation of high vapor concentrations may cause confusion, pulmonary irritation, tremors and rarely coma. These effects are generally transient.

Fluorocarbons are cardiac sensitizers frequently resulting in lethal ventricular arrhythmias from excessive inhalation.

Chronic/Carcinogenicity

Neither the product overall nor any of its ingredients are known to be listed as potentially carcinogenic by NTP, IARC, OSHA or ACGIH.

Ingredient(s) - Toxicological Data

1,1,1,2-tetrafluoroethane

LC50 (rat): 1500 gm/m³ or 567,000 ppm (4 hrs)

LC50 (mouse): 1700 gm/m³ (2 hrs)

Section 12: Ecological Information

Ecotoxicological Information

Product has a low ozone depletion potential.

Will rapidly volatilize to the atmosphere if released to water. Will not bioaccumulate in fish and aquatic organisms.

Acute Toxicity - Fish And Invertebrates

EC50 (Daphnia magna): 980 mg/L (48 hrs)

LC50 (Rainbow trout): 450 mg/L (96 hrs)

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Section 12: Ecological Information - Continued

Acute Toxicity - Fish And Invertebrates - Continued

Section 13: Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Recover, recycle or reclaim when practical.

Section 14: Transport Information

Proper Shipping Name

Consumer Commodity

Hazard Class

ORM-D

Additional Shipping Paper Description

IMDG:

1,1,1,2-TETRAFLUOROETHANE or R-134a REFRIGERANT GAS

Hazard Class: 2.2

UN3159

Packing Group: NA

Marine Pollutant: No

Section 15: Regulatory Information

U.S. Regulatory Information

Toxic Substance Control Act (TSCA): All ingredients of this product are listed on the TSCA 8(b) Chemical Substance Inventory or are exempt.

SARA Hazard Classes

Acute Health Hazard

Chronic Health Hazard

Sudden Release of Pressure Hazard

SARA Section 313 Notification

This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.

State Regulations

Not listed under California Proposition 65.

Canadian Regulatory Information

1,1,1,2-Tetrafluoroethane is included on the Canadian Domestic Substances List.

Section 16: Other Information

NFPA Rating

Health: 1

Fire: 0

Reactivity: 1

HMIS Rating

Health: 1

Fire: 0

Reactivity: 1

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