



ZEP Manufacturing Company
Acuity Specialty Products Group, Inc.
P.O. Box 2015
Atlanta, GA 30301
1-877-1-BUY-ZEP (428-9937)

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name **ZEP FREEZE**
Product Use Gum and Candle Wax Remover
Product Code **0240**
Date of issue **09/16/04** Supersedes **03/13/02**

Emergency For MSDS Information:
Telephone Acuity Specialty Products Group, Inc.
Numbers Compliance Services 1-877-1-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC:
(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency
CHEMTREC:
(800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared by Compliance Services Group
Acuity Specialty Products Group
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

00620 B324
AERO INSTRUMENTS AVIONICS INC
7290 NASH RD
N TONAWANDA NY 14120

Printing date: 10/29/04

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
1,1,1,2 - TETRAFLUOROETHANE; HFC-134a	811-97-2	>90	Not established

Section 3. Hazards Identification

Acute Effects Routes of Entry Dermal contact. Inhalation.

Skin Hazardous in case of skin contact (irritant). Direct contact may cause irritation and redness. Dermal contact with a rapidly evaporating liquid could result in frosting of the tissues or frostbite.

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation Hazardous in case of inhalation. Avoid breathing vapors of this product. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system depression.

Ingestion Unlikely in this form.

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects The substance may be toxic to heart. Repeated or prolonged exposure to the substance can produce target organs damage. Inhalation of spray mists or vapors may cause central nervous system depression characterized by headache, dizziness, nausea, stupor, weakness and/or numbness and tingling in the extremities (medical term - peripheral neuropathy).

See Toxicological Information (section 11)

HMIS

Health	1
Physical Hazard	0
Reactivity	0
Personal Protection	B

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Since the product is a gas and that it is mostly probable that it will be inhaled more than ingested, please consider first to look at the preventive measures in case of inhalation.

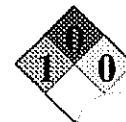
Section 5. Fire Fighting Measures

Flash Point Not applicable. **Flammable Limits** Not applicable.

Flammability Non-flammable gas.

Fire Hazard CONTENTS UNDER PRESSURE. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Fire-Fighting Procedures Use an extinguishing agent suitable for surrounding fires. Fire-fighters should wear proper protective equipment.

**Section 6. Accidental Release Measures**

Spill Clean up Unlikely in this form. The vapour/gas is heavier than air and will spread along the ground. Ensure ventilation is adequate if there is a risk of aerosol formation or vapor build-up.

Section 7. Handling and Storage

Handling Keep away from heat, sparks and flame. Avoid breathing gas. Avoid contact with eyes, skin and clothing. Keep container closed. Do not enter storage areas and confined spaces unless adequately ventilated. Use only with adequate ventilation. Do not puncture or incinerate. Apply this product only as specified on the label.

Storage CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Keep away from heat, sparks and flame. Keep away from heat and direct sunlight. Keep container in a cool, well-ventilated area. Store between 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)**

Eyes Safety glasses.

Body Wear appropriate protective clothing to prevent skin contact.
Recommended: Nitrile gloves. Neoprene gloves. Rubber gloves.

Respiratory Avoid breathing gas. Wear appropriate respirator when ventilation is inadequate.

**Section 9. Physical and Chemical Properties**

Physical State Gas. (Aerosol.) **Color** Clear. Colorless.

pH Not applicable **Odor** Ethereal. (Slight.)

Boiling Point <-18°C (-0.4°F) **Vapor Pressure** 760 mmHg

Specific Gravity 1.21 (Water = 1) **Vapor Density** <1 (Air = 1)

Solubility Not applicable **Evaporation Rate** >1 compared to Ether (anhydrous)

VOC (Consumer) 0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive with oxidizing agents, metals, alkalis.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products carbon oxides (CO, CO₂), hydrogen fluoride, hydrogen chloride, Chlorine.

Section 11. Toxicological Information

Toxicity to Animals Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Waste must be disposed of in accordance with federal, state and local environmental control regulations. **Waste Stream** Non-regulated waste

Information

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name 1,1,1,2-tetrafluoroethane

DOT Classification 2.2 **UN number** 3159

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:
No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.