# **Material Safety Data Sheet**



Zep, Inc. 1310 Seaboard Industrial Blvd. Atlanta, GA 30318 1-877-I-BUY-ZEP (428-9937) www.zep.com

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Section 1. Chemical Product and Company Identification

Product name **FREEZE** 

Aerosol Gum and Wax Remover. Product use

0240 Product code

Date of issue 10/14/09 Supersedes 09/16/04

**Emergency Telephone Numbers** 

For MSDS Information:

Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency

(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency

CHEMTREC: (800) 424-9300 - All Calls Recorded

In the District of Columbia (202) 483-7616

Prepared By

Compliance Services

1420 Seaboard Industrial Blvd.

Atlanta, GA 30318

Section 2. Hazards Identification

Printing date: 08/12/10

MONTEVIDEO HIGH SCHOOL

MONTEVIDEO MN 56265-2269

1501 WILLIAMS AVE

**Emergency overview** WARNING

\*Hazard Determination System (HDS): Health, Flammability, Reactivity

CONTENTS UNDER HIGH PRESSURE. DO NOT STORE IN

VEHICLES. VAPOR HARMFUL. Liquid can cause burns similar to

frostbite.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Inhalation.

Eves

Can cause burns similar to frostbite. Direct contact with the eyes can cause irreversible damage,

including blindness.

Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite. Skin

Inhalation Can cause central nervous system (CNS) depression. Inhalation of vapor/aerosol concentrations

above the recommended exposure limits causes headaches, drowsiness and nausea. Severe over-

exposure can result in heartbeat irregularity (arrhythmia) and death.

Ingestion

Unlikely in this form.

Chronic effects

Repeated or prolonged exposure to the substance can produce damage to the heart.

Carcinogenicity

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

Product/ingredient-name=

----ACGIH----- "IARC"

NIOSH

NTP

**OSHA** 

None.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

1,1,1,2 - TETRAFLUOROETHANE; hfc-134a

811-97-2

95 - 100

Section 4. First Aid Measures

Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If frostbite occurs, get medical attention.

FPA

Skin Contact

In case of contact with liquid, warm frozen tissues slowly with lukewarm water. Continue to rinse for at least 10

minutes. If irritation, redness or discomfort is present, get medical attention immediately.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Do not give adrenaline or similar drugs. Get medical attention if adverse health effects persist or are severe.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if adverse health effects persist or are severe.

1-357-A80661-15565-1-0-620-4-1485-1

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**Material Safety Data Sheet** 

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National Fire Protection Association (U.S.A.)

Section 5. Fire Fighting Measures

Not applicable

Flash Point Flammable Limits Not available.

Flammability

Non-flammable.

Fire hazard

CONTENTS UNDER PRESSURE. Contains gas under pressure; may explode if heated. May

emit toxic fumes under fire conditions.

Fire-Fighting **Procedures** 

Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion. Do not release runoff from fire to sewers or waterways. Fire-fighters should wear appropriate

protective equipment.

#### Section 6. Accidental Release Measures

Spill Clean up Large spills are unlikely due to packaging. Eliminate all ignition sources. Ensure ventilation is adequate if there is a risk of aerosol formation or vapor build-up.

#### Section 7. Handling and Storage

Handling

Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Watch for accumulation in low confined areas. thoroughly after handling.

Storage

CONTENTS UNDER PRESSURE. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see section 10) and food and drink. Store and use away from heat, sparks, open flame or any other ignition source. Store between the following temperatures: 40°F - 120°F (4.4°C -49°C). Do not puncture or incinerate. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

#### Section 8. Exposure Controls/Personal Protection

Product name

**Exposure limits** 

1,1,1,2 - TETRAFLUOROETHANE; hfc-134a

AIHA WEEL (United States). TWA: 1000 ppm 8 hour(s).

# Personal Protective Equipment (PPE)

**Eves** 

Recommended: Safety glasses.

**Body** 

Wear appropriate protective clothing to prevent skin contact.

Respiratory

Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this

is necessary.

# Section 9. Physical and Chemical Properties

**Physical State** 

Gas. [Aerosol.] Not applicable.

**Boiling Point** 

-26.5°C (-15.7°F)

Specific Gravity 1.21

Solubility

0.9 (g/l)

Color Clear. Colorless. Odor Ethereal. [Slight]

Vapor Pressure 101.3 kPa (760 mm Hg)\*

Vapor Density 3.6 [Air = 1]

**Evaporation Rate** >1 (Ether (anhydrous). = 1)

VOC (Consumer) 0 (g/l).

### Section 10. Stability and Reactivity

Stability and Reactivity

The product is stable.

Incompatibility

Reactive or incompatible with the following materials: alkaline earth metals, oxidizing materials and strong alkalis

**Hazardous Polymerization** 

Will not occur.

Hazardous Decomposition Products Carbon dioxide (CO2), Carbon monoxide and hydrogen chloride.

#### Section 11. Toxicological Information

**Acute Toxicity** 

Product/ingredient name

Result

Species

Dose

Exposure

1,1,1,2 - TETRAFLUOROETHANE

LC50 Inhalation Gas.

Rat

500000 ppm

4 hours

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#### Section 12. Ecological Information

**Environmental Effects** 

This product shows a low bioaccumulation potential.

#### **Aquatic Ecotoxicity**

Not available.

#### Section 13. Disposal Considerations

#### Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: - (Not applicable.)

Classification: - (Non-hazardous waste)

#### Section 14. Transport Information

	Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
+	DOT-Classification.	3159	-1,1,1,2-Tetrafluoroethane	.2.2	_,	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG\*: Packing group

## Section 15. Regulatory Information

#### **U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 307: 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.

All Components of this product are listed or exempt from listing on TSCA Inventory.

#### State Regulations

California Prop 65

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.

NOTE. Hazard Determination System (HDS) ratings are based on a 0.4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

Although these ratings are not required on MSDSs under 29 CFR 1910 1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.