

Safety Data Sheet



Superior Solutions

Zep, Inc.
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1-877-I-BUY-ZEP (428-9937)
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Section 1. Chemical Product and Company Identification

Product name FREEZE
Product use Aerosol Gum and Wax Remover.
Product code 0240
Date of issue 04/08/14 **Supersedes** 10/14/09

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
1259 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

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

WARNING



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.

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

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

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 Classification

Not listed as a carcinogen by OSHA, NTP or IARC.

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Not available.						

Additional information: See toxicological information (Section 11)

Section 3. Composition/Information on Ingredients

Name	CAS number	%
Tetrafluoroethane; norflurane	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.

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.

Section 5. Fire Fighting Measures

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



Flash Point Not applicable

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 drains or watercourses. 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. Wash thoroughly after handling.

Storage CONTENTS UNDER PRESSURE. Store in original container protected from direct sunlight in a dry, cool and well-ventilated 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

Ingredient	Exposure limits
Tetrafluoroethane; norflurane	AIHA WEEL (United States, 10/2011). TWA: 1000 ppm 8 hours.

Personal Protective Equipment (PPE)

Eyes 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.]

Color Clear. Colorless.

pH Not applicable.

Odor Ethereal. [Slight]

Boiling Point -26.5°C (-15.7°F)

Vapor Pressure 101.3 kPa (760 mm Hg)

Specific Gravity 1.21

Vapor Density 3.6 [Air = 1]

Solubility 0.9 (g/l)

Evaporation Rate >1 (ether (anhydrous) = 1)

VOC (Consumer) 0 % (w/w) 0 lbs/gal (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

Product/ingredient name	Result	Species	Dose	Exposure
Tetrafluoroethane; norflurane	LC50 Inhalation Vapor	Rat	1500 g/m ³	4 hours

Section 12. Ecological Information

Environmental Effects This product shows a low bioaccumulation potential.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
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	Not available.	Consumer commodity or Limited quantity	ORM-D	-	
IMDG Class	UN3159	1,1,1,2-Tetrafluoroethane (Tetrafluoroethane; norflurane) or Limited quantity	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) 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****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.