



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name **Gum Remover**
Product code **ZUGMS6**
Date of issue **10/14/09** **Supersedes**

Emergency Telephone Numbers

For MSDS Information:
 Compliance Services 404-352-1680

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

Emergency overview

WARNING

CONTENTS UNDER HIGH PRESSURE. DO NOT STORE IN VEHICLES. VAPOR HARMFUL. Liquid can cause burns similar to frostbite.

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



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.

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

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

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

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.
- 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 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. 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**Product name**

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

Exposure limits

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

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 (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 (CO ₂), 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 |

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

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 | |  |
| TDG Classification | 3159 | 1,1,1,2-Tetrafluoroethane | 2.2 | |  |
| IMDG Class | Not determined. | | | | |

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.

Canada**WHMIS (Canada)**

Class A: Compressed gas.

Class D-2B: Material causing other toxic effects (Toxic).

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.