

Section 1 – MANUFACTURER INFORMATION

Manufacturer	IMS Company 10373 Stafford Road Chagrin Falls, OH 44023-5296 WEB imscompany.com	Emergency Phone Prepared by Prepared/Revised E-mail	800-424-9300 Product Safety Advisor March 17, 2009 sales@imscompany.com
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P/N	Description	P/N	Description
113659	1% Silicone Mist	113716	Gold Label Silicone Spray
113646	3% Silicone Spray – 9.25 oz	113653	3% Silicone Spray – 12 oz

Product Use: To help plastic parts release from a metal mold in processes such as injection molding.

Section 2 – INGREDIENTS INFORMATION

Chemical/Common Name	CAS-Number	%
1,1-Difluoroethane (HFC-152a)	75-37-6	35 to 55
Dimethyl Ether	115-10-6	35 to 55
Aliphatic Petroleum Distillate	64742-89-8	0.1 to 15
Dimethylpolysiloxane ⁽¹⁾	63148-62-9	1 to 10

⁽¹⁾ *Approved for use when molding food packaging per 21 CFR 181.28 – except 113716 Gold Label.*

Section 3 – HAZARDS IDENTIFICATION

CAUTION: CONTENTS UNDER PRESSURE

WARNING: CONTAINS FLAMMABLE GASES

Odor/Appearance: Clear mist as dispensed from aerosol can.

POTENTIAL HEALTH EFFECTS

Routes of exposure: Skin, eyes, inhalation, ingestion.

Eye Contact: May cause immediate or delayed irritation. Irritation may show up as redness and/or swelling. May cause corneal damage.

Skin Contact: Repeated or prolonged contact with skin may produce redness, irritation and/or dryness. May cause or aggravate dermatitis or other existing skin condition.

Inhalation: Inhalation of vapors or spray mist may cause headaches, and/or nose and throat irritation.

Ingestion: Ingestion may cause irritation to the mouth, esophagus, and/or stomach. May cause frostbite. May cause aspiration; do not induce vomiting.

Signs or Overexposure: Signs and symptoms of exposure to this material through breathing, swallowing, and /or passage of material through the skin may include; stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness).

Pre-existing Conditions Aggravated: Skin and respiratory disorders. Alcoholism, kidney, liver, cardiovascular and nervous system

Target Organs: Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible kidney effects, effects on hearing, central nervous system damage

4. First Aid Measures

Eye Contact: Flush with warm water for 15 minutes. Seek medical attention.

Skin Contact: Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.

Inhalation: Remove exposed individual to fresh air, protecting yourself. Restore breathing if necessary. Contact a physician.

Ingestion: Immediately give the person two large glasses of water. Do not induce vomiting. Get medical attention immediately.

***** **Do not give an unconscious or convulsing person anything by mouth!** *****

5. Fire Fighting Measures

Flash Point: Flash point of propellant <0° F.

Flammable limits in air, % by volume: Upper: 18 % (VOL.) Gas in air (propellant portion)

Lower: 3.4 % (VOL.) Gas in air (propellant portion)

Extinguishing Media: Dry chemical, carbon dioxide, halon or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials, and carbon dioxide will displace oxygen. Take proper precautions when using these materials.

Unusual Fire & Explosion Hazards: This material may be ignited by extreme heat, sparks, flames or other ignition sources (including static electricity). Vapors are heavier than air and will collect in low areas (including sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

Special Fire Fighting Procedures: At elevated temperatures (over 130° F) aerosol container may burst, vent or rupture; use equipment or shielding to protect personnel. Cooling exposed containers with streams of water may be helpful. Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

6. Accidental Release Measures

Spill or Leak Instructions: Avoid breathing vapors. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind. Keep out of low areas where vapors could accumulate. Ventilate to reduce concentration of components below their exposure limits. Use protective equipment consistent with the situation. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

Pick up spilled liquid on absorbent material. If large release occurs indoors, turn off HVAC system to prevent vapors from contaminating entire building. Silicone is likely to be deposited on floors, making them slippery. Immediately scatter sand or similar anti-slip material to prevent slip and fall injuries. Thoroughly clean floors to remove residual lubricants before returning them to service.

Place leaking containers in well-ventilated area. If required, notify state and local authorities.

7. Handling and Storage

Handling: Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burst. Use in accordance with good workplace practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers. Do not incinerate

Storage: Store in a cool, dry area, away from heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

8. Exposure Controls / Personal Protection

Protective Equipment: Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Engineering Controls: General or dilution ventilation is frequently sufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

Respiratory Protection: Use adequate ventilation to maintain exposure limits. If the exposure limits of the products or any of its components are exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier). Above 1000 ppm, an approved self-contained breathing apparatus or airline respirator with full face-piece is required

Other Suggested Equipment: Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised: IMS takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

Exposure guidelines:

Ingredients	CAS #	Percent	Exposure Limits
1,1,-Difluoroethane (HFC-152a)	75-37-6	35-60 %	1000 ppm 8 hour TWA ⁽¹⁾
Dimethyl Ether	115-10-6	35-60 %	1000 ppm 8 hour TWA ⁽¹⁾
Aliphatic Petroleum Distillate	64742-89-8	0.1-15 %	OSHA (TLV) 500 ppm ACGIH (TLV) 300 ppm
Dimethylpolysiloxane	63148-62-9	.05-10	NE

⁽¹⁾ Supplier Acceptable Exposure Limit

9. Physical and Chemical Properties

Boiling Point:	NA	Specific Gravity:	<1
Vapor Density (Air = 1):	>1	Water Solubility:	Negligible
Evaporation Rate (Ether = 1):	Slower		

Odor/Appearance: Clear mist as dispensed from aerosol can.

Stability: Stable

10. Stability and Reactivity

Conditions to Avoid: Heat, sparks and open flame

Incompatibility: Strong oxidizing agents

Hazardous Decomposition: Combustion will produce carbon monoxide, carbon dioxide and nitrogen-oxygen compounds.

Hazardous Polymerization: Will not occur

11. Toxicological Information

Component Toxicological Information:

Aliphatic Petroleum Distillate: CAS # 64742-89-8

- Acute oral toxicity LD 50 Rat: > 8,000 mg/kg
- Acute Inhalation toxicity LC 50 Rat: 3400 ppm, 4 h
- Acute dermal toxicity LD 50 Rat: > 4,000 mg/kg

Dimethyl Ether: CAS # 115-10-6

- Inhalation 4 hour LC50: 164,000 ppm in rats

HFC-152a: CAS # 75-37-6

- Oral ALD >1500 mg/kg in rats
- Inhalation ALC 4 hour 383,000 ppm in rats

13. Disposal Considerations

Do not puncture or burn containers. Give empty, leaking, or full containers to disposal service equipped to handle and dispose of aerosol (pressurized) containers. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete. Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

14. Transport Information**Ground (US DOT)**Consumer Commodity
Class ORM-D, ERG 126

or

Aerosols (limited quantity),
Class 2.1, ERG 126**AIR (IATA)**Aerosols (limited quantity),
Class 2.1, ERG 126, UN No. 1950**Vessel**Aerosols (limited quantity),
Class 2.1, UN No. 1950**15. Regulatory Information****ENVIRONMENTAL REGULATIONS****SARA 302/304:**

None

SARA 311/312:

Immediate (x) Delayed () Fire (x) Reactive () Sudden Release of Pressure (x)

Section 313

none

Californian Prop. 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

BENZENE

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

BENZENE

TOLUENE

All the chemicals used in this product are TSCA listed.

Check with your local regulators to be sure all local regulations are met.

16. Other Information**Hazard ratings:** This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.**NFPA:** Level 1 Aerosol**HMIS:** Health: 2 Flammability: 4 Reactivity: 0*Where: 4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT***Note:** For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. IMS Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.