

6% Silicone

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: 6% Silicone
SDS Number: IMS 06-721-12
Product Code: 131968
Revision Date: 11/17/2022
Version: 2
Product Type: Aerosol Mold Release
Supplier Details: IMS Company
 10373 Stafford Rd.
 Chagrin Falls, OH 44023-5296
Phone: 1-440-543-1615
Emergency: Chemtel 1-800-255-3924

NOTE: 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. We provide this information as guidance for providing personal protection to your employees. The user has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. The user must meet all applicable safety and health standards. We provide this information as guidance for providing personal protection to your employees.

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Aerosols, 1
 Physical, Gases Under Pressure, Liquefied Gas
 Health, Aspiration hazard, 1
 Health, Skin corrosion/irritation, 2
 Health, Specific target organ toxicity - Single exposure, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H222 - Extremely flammable aerosol
 H280 - Contains gas under pressure; may explode if heated
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation
 H336 - May cause drowsiness or dizziness

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces.
 P211 - Do not spray on an open flame or other ignition source.
 P251 - Do not pierce or burn, even after use.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash skin thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves/ eye protection/ face protection.
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

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Continue rinsing.
 P312 - Call a POISON CENTER/doctor/...if you feel unwell.
 P331 - Do NOT induce vomiting.
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P362 + P364 - Take off contaminated clothing and wash it before reuse.
 P405 - Store locked up.
 P410 + P403 - Protect from sunlight. Store in a well-ventilated place.
 P412 - Do not expose to temperatures exceeding 50 °C/ 122 °F.
 P501 - Dispose of contents/container in accordance with local/regional regulations.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
75-37-6	35-60%	1,1-Difluoroethane
115-10-6	35-60%	Dimethyl ether
63148-62-9	0.05-10%	Siloxanes and Silicones, di-Me
142-82-5	0.1-15%	Heptane

4 FIRST AID MEASURES

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

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

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

Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

5 FIRE FIGHTING MEASURES

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

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

UEL: Upper: 18 % (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 (static electricity). Vapors are heavier than air and will collect in low areas (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 130F) 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
 Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

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Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. 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.

7 HANDLING AND STORAGE

Handling Precautions: 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 work place 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 Requirements: Store in a cool, dry area, away form heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Personal Protective Equipment:

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.

Respiratory Protection: Use adequate ventilation to maintain exposure limits. If the exposure limits of the products or any of its components is exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier). Above exposure levels 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: We. take no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

1,1-Difluoroethane cas#:(75-37-6) [35-60%]

Components with workplace control parameters

TWA 1,000 ppm USA. Workplace Environmental Exposure Levels (WEEL)

Dimethyl ether cas#:(115-10-6) [35-60%]

Components with workplace control parameters

TWA 1,000 ppm USA. Workplace Environmental Exposure Levels (WEEL)

Siloxanes and Silicones, di-Me cas#:(63148-62-9) [0.05-10%]

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Heptane cas#:(142-82-5) [0.1-15%]

Components with workplace control parameters

TWA 85 ppm USA. NIOSH Recommended
350 mg/m³ Exposure Limits

C 440 ppm USA. NIOSH Recommended
1,800 mg/m³ Exposure Limits
15 minute ceiling value

TWA 500 ppm USA. Occupational Exposure Limits
2,000 mg/m³ (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m³ is approximate.

TWA 400 ppm USA. OSHA - TABLE Z-1 Limits for
1,600 mg/m³ Air Contaminants - 1910.1000

STEL 500 ppm USA. OSHA - TABLE Z-1 Limits for
2,000 mg/m³ Air Contaminants - 1910.1000

TWA 400 ppm USA. ACGIH Threshold Limit Values
(TLV)

Central Nervous System impairment
Upper Respiratory Tract irritation

STEL 500 ppm USA. ACGIH Threshold Limit Values
(TLV)

Central Nervous System impairment
Upper Respiratory Tract irritation

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Aerosol	Odor:	Negligible
Viscosity:	NE	Solubility:	Negligible
Boiling Point:	NE	Freezing/Melting Pt.:	NE
Flammability:	Flammable	Flash Point:	Flash point of propellant < 0°F
Partition Coefficient:	NE	Vapor Density:	>1 Air = 1
Vapor Pressure:	>30 psi	Auto-Ignition Temp:	NE
pH:	NE	UFL/LFL:	Upper: 18 % (VOL.) Gas in air (propellant portion) Lower: 3.4 % (VOL.) Gas in air (propellant portion)
Evap. Rate:	Ether = 1 Slower		

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Heat, spark, and open flame.
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Decomposition:	Combustion will produce Carbon Monoxide, Carbon Dioxide, and nitrogen-oxygen compounds.
Hazardous Polymerization:	Will not occur.

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11**TOXICOLOGICAL INFORMATION**

1,1-Difluoroethane cas#:(75-37-6) [35-60%]

Information on toxicological effects

Acute toxicity:

Oral LD50 Inhalation LC50 LC50 Inhalation - mouse - 2 h - 977,000 mg/m3

Dermal LD50 no data available

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Acts as a simple asphyxiant by displacing air., Dizziness, Disorientation, Headache, excitement, Central nervous system depression, May be harmful., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: KI1410000

Dimethyl ether cas#:(115-10-6) [35-60%]

Information on toxicological effects

Acute toxicity:

Oral LD50 no data available

Inhalation LC50 LC50 Inhalation - rat - male - 4 h - 164000 ppm Remarks: Behavioral:Ataxia. Behavioral:General anesthetic.

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Behavioral: Coma.

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: Genotoxicity in vitro - Ames test - S. typhimurium - with and without metabolic activation - negative

Genotoxicity in vitro - Chromosome aberration test in vitro - Human lymphocytes - with and without metabolic activation -

Genotoxicity in vivo - Drosophila melanogaster - male - inhalation (gas) - negative

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Blurred vision, Headache, Dizziness, Convulsions, Asphyxia, Unconsciousness, Liver disorders

Synergistic effects: no data available

Additional Information:

RTECS: PM4780000

Siloxanes and Silicones, di-Me cas#:(63148-62-9) [0.05-10%]

Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h

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Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: JT6485000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Heptane cas#:(142-82-5) [0.1-15%]

Information on toxicological effects

Acute toxicity: no data available

LC50 Inhalation - rat - 4 h - 103,000 mg/m³

Inhalation: Irritating to respiratory system.

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACG IH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

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Aspiration hazard: May be fatal if swallowed and enters airways.

Additional Information:

RTECS: MI7700000

Prolonged or repeated exposure to skin causes defatting and dermatitis., Central nervous system depression, narcosis, Damage to the lungs.

Stomach - Irregularities - Based on Human Evidence

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ECOLOGICAL INFORMATION

1,1-Difluoroethane cas#:(75-37-6) [35-60%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Dimethyl ether cas#:(115-10-6) [35-60%]

Information on ecological effects

Toxicity:

Toxicity to fish semi-static test LC50 - *Poecilia reticulata* (guppy) - > 4.1 g/l - 96 h.

Toxicity to daphnia static test EC50 - *Daphnia magna* (Water flea) - > 4.4 g/l - 48 h.
and other aquatic invertebrates

Toxicity to bacteria Respiration inhibition EC10 - *Pseudomonas putida* - ca. > 1,600 mg/l - 30 min:

Persistence and degradability: Biodegradability aerobic Result: 5 % - Not readily biodegradable. Method: OECD Test Guideline 301D

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Siloxanes and Silicones, di-Me cas#:(63148-62-9) [0.05-10%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

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Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

Heptane cas#:(142-82-5) [0.1-15%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Carassius auratus (goldfish) - 4 mg/l - 24.0 h.

LC50 - Tilapia mossambica - 375 mg/l - 96.0 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 1.50 mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: Ratio BOD/ThBOD 3.5 %

Bioaccumulative potential: Indication of bioaccumulation.

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

Do not empty into drains. Avoid release to the environment.

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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.

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TRANSPORT INFORMATION

Aerosols (limited quantity),
Class 2.1, ERG 126

AIR (IATA)
Aerosols (limited quantity),
Class 2.1, ERG 126, UN No. 1950

Vessel
Aerosol (Limited Quantity), Class 2.1, UN No 1950

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15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[35-60%] 1,1-Difluoroethane (75-37-6) CFATS, GADSL, MASS, TSCA

[35-60%] Dimethyl ether (115-10-6) CFATS, HAP, MASS, PA, TSCA

[0.05-10%] Siloxanes and Silicones, di-Me (63148-62-9) TSCA

[0.1-15%] Heptane (142-82-5) MASS, OSHAWAC, PA, TSCA, TXAIR

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

CFATS = DHS Chemicals of Interest

GADSL = Global Automotive Declarable Substance List (GADSL)

MASS = MA Massachusetts Hazardous Substances List

TSCA = Toxic Substances Control Act

HAP = Hazardous Air Pollutants

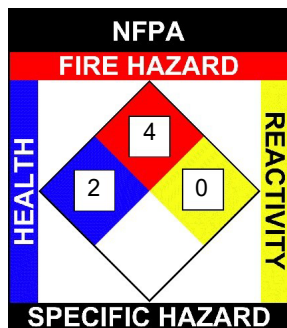
PA = PA Right-To-Know List of Hazardous Substances

OSHA WAC = OSHA Workplace Air Contaminants

TXAIR = TX Air Contaminants with Health Effects Screening Level

16 OTHER INFORMATION

NFPA: Health = 2, Fire = 4, Reactivity = 0, Specific Hazard = n/a



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. We make 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 SDS does not indicate that the possessor of the SDS was a purchaser or user of the subject product.

Revision Date: 11/17/2022