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Version 2

**1. IDENTIFICATION****Product Identifier****Product Name** Silicone Mold Release – MRES414**Other means of identification****SDS #** MRES414**Product Code** MRES414**Synonyms** Dimethylpolysiloxane  
DME Silicone Release**UN/ID No** UN1950**Other Information****Recommended use of the chemical and restrictions on use****Recommended Use** Industrial mold release.**Details of the supplier of the safety data sheet****Supplier Address**DME  
29111 Stephenson Highway  
Madison Heights, MI 48071**Emergency Telephone Number****Company Phone Number** 800-626-6653 (U.S.), 800-387-6600 (Canada) or 248-398-6000 (worldwide)**Emergency Telephone (24 hr)** US CHEMTREC number 1-800-424-9300 Outside the US (Canada) number  
1-703-527- 3887 Mexico 1-800-681-9531 (CHEMTREC)**2. HAZARDS IDENTIFICATION****Appearance** Clear, oily, colorless liquid**Physical State** Aerosol**Odor** Slight ether**Classification**

Acute toxicity - Dermal	Category 4
Flammable Aerosols	Category 2

**Signal Word**

Warning

**Hazard Statements**

Harmful in contact with skin

Flammable Aerosol

Pressurized container: May burst if heated



**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Do not spray on an open flame or other ignition source  
 Pressurized container: Do not pierce or burn, even after use

**Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of soap and water  
 Call a poison center or doctor/physician if you feel unwell  
 Wash contaminated clothing before reuse

**Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** Dimethylpolysiloxane  
 Slide Econo-Mist.  
**Chemical Family** Silicone.

Chemical Name	CAS No	Weight-%
Dimethyl ether	115-10-6	55-65
1,1 difluoroethane	75-37-6	35-45
Polydimethylsiloxane	63148-62-9	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. Call a physician if you feel unwell.

**Inhalation** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects**

**Symptoms** In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Concentrated spray may cause freezing of skin area.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Foam.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Aerosols may rupture violently at temperatures above 120 F. Aerosol flame projection test: 18" extension at 70 F.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

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|----------------------------------|---|
| <b>Personal Precautions</b>      | Use personal protective equipment as required.        |
| <b>Environmental Precautions</b> | See Section 12 for additional Ecological Information. |

**Methods and material for containment and cleaning up**

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| <b>Methods for Containment</b> | Remove leaking container to outside disposal site. Remove all sources of ignition. |
| <b>Methods for Clean-Up</b>    | Keep in suitable, closed containers for disposal.                                  |

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

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|--------------------------------|---|
| <b>Advice on Safe Handling</b> | Use personal protection recommended in Section 8. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not spray near open flame. Pressurized container: Do not pierce or burn, even after use. Do not drop. Do not spray on floors. |
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**Conditions for safe storage, including any incompatibilities**

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| <b>Storage Conditions</b>     | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Do not store at temperatures above 120°F. |
| <b>Incompatible Materials</b> | Powdered or alkaline earth metals.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| <b><u>Exposure Guidelines</u></b> | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies |
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**Appropriate engineering controls**

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| <b>Engineering Controls</b> | Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. |
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**Individual protection measures, such as personal protective equipment**

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|---------------------------------|--|
| <b>Eye/Face Protection</b>      | Proper eye care is needed in all industrial operations.  |
| <b>Skin and Body Protection</b> | Protective gloves are not required, but recommended.   |
| <b>Respiratory Protection</b>   | No protection is ordinarily required under normal conditions of use and with adequate ventilation. |

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical State</b>	Aerosol	<b>Odor</b>	Slight ether
<b>Appearance</b>	Clear, oily, colorless liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Clear		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	Not determined		
<b>Melting Point/Freezing Point</b>	< -45.6 °C / <-50 °F		
<b>Boiling Point/Boiling Range</b>	Not available		
<b>Flash Point</b>	Not applicable		
<b>Evaporation Rate</b>	Not available		
<b>Flammability (Solid, Gas)</b>	Not determined		
<b>Upper Flammability Limits</b>	Not determined		
<b>Lower Flammability Limit</b>	Not determined		
<b>Vapor Pressure</b>	Not available		
<b>Vapor Density</b>	Not available		
<b>Specific Gravity</b>	0.75		
<b>Water Solubility</b>	Insoluble in water		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		
<b>VOC Content (%)</b>	97%		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Open flames. Avoid high temperatures.

### Incompatible Materials

Powdered or alkaline earth metals.

### Hazardous Decomposition Products

Hydrogen fluoride and other fluorine compounds.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Harmful in contact with skin.
<b>Inhalation</b>	Do not inhale.
<b>Ingestion</b>	Do not ingest.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl ether 115-10-6	-	-	= 308.5 mg/L ( Rat ) 4 h
Polydimethylsiloxane 63148-62-9	> 17 g/kg ( Rat )	> 2 g/kg ( Rabbit )	-

### Information on physical, chemical and toxicological effects

**Symptoms** In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Concentrated spray may cause freezing of skin area.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Contains no ozone depleting chemicals.

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

Chemical Name	Partition Coefficient
Dimethyl ether 115-10-6	-0.18

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Empty fully, including gas pressure. Do not puncture or incinerate cans. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of in accordance with federal, state and local regulations.

## 14. TRANSPORT INFORMATION

**Note** Based on package size, product may be eligible for limited quantity exception.

**DOT** (each not exceeding 1 L capacity)  
**UN/ID No** UN1950

**Proper Shipping Name** Aerosols  
**Hazard Class** 2.1

**IATA**

**UN/ID No** UN1950  
**Proper Shipping Name** Aerosols, flammable  
**Hazard Class** 2.1

**IMDG**

**UN/ID No** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard Class** 2.1

## 15. REGULATORY INFORMATION

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Dimethyl ether	Present	X		Present		Present	X	Present	X	X
1,1 difluoroethane	Present	X		Present		Present	X	Present	X	X
Polydimethylsiloxane	Present	X				Present	X	Present	X	X

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dimethyl ether 115-10-6	X	X	X
1,1 difluoroethane 75-37-6	X	X	

<b>16. OTHER INFORMATION</b>
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<b><u>NEPA</u></b>	<b>Health Hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Instability</b> Not determined	<b>Special Hazards</b> Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b> 1	<b>Flammability</b> 3	<b>Physical Hazards</b> 0	<b>Personal Protection</b> B

**Issue Date:** 01-Sep-2012  
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**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**