# MATERIAL SAFETY DATA SHEET

**D-M-E COMPANY**  
29111 STEPHENSON HIGHWAY  
MADISON HEIGHTS, MI 48071  

**PRODUCT NAME:** SILICONE MOLD RELEASE MRFS-514  
MANUFACTURED FOR D-M-E COMPANY BY SLIDE PRODUCTS, INC., WHEELING, IL

**EMERGENCY TELEPHONE:** 800-424-9300  
**INFORMATION TELEPHONE:** 248-398-6000  
**D.U.N.S. NUMBER:** 05-882-2677  
**PRODUCT NUMBER:** MRFS-514  
**FAX NUMBER:** 248-544-5705  

IF D-M-E COMPANY CONSIDERS THE FORMULA OF THIS PRODUCT TO BE A TRADE SECRET, THE EXACT CHEMICAL NAMES AND PERCENTAGES WILL NOT APPEAR IN THE BODY OF THIS DOCUMENT. EXACT CHEMICAL COMPOSITION GIVEN ON REQUEST TO PHYSICIANS, INDUSTRIAL HYGIENISTS, AND OTHER QUALIFIED HEALTH PROFESSIONALS.

## SECTION I. IDENTIFICATION

**CHEMICAL NAME:** DIMETHYLPOLYSILOXANE SOLUTION  
**CHEMICAL FAMILY:** SILICONE  
**FORMULA:** 53114  
**SYNONYMS:**  
**DOT HAZARD CLASSIFICATION:** ORM-D  
**DOT SHIPPING NAME:** CONSUMER COMMODITY  
**CHEMICAL ABSTRACT REGISTRY NUMBER:** N/A, MIXTURE  
**IDENTIFICATION NUMBER:** NONE  
**H.M.I.S. RATING:** 1,1,0,B

## SECTION II. PHYSICAL DATA

DATA IN SECTION II APPLY TO CONCENTRATE BEFORE ADDING PROPELLANT

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT</td>
<td>N/A</td>
</tr>
<tr>
<td>FREEZING POINT</td>
<td>&lt; -50˚ F.</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H₂O = 1)</td>
<td>.81</td>
</tr>
<tr>
<td>WEIGHT PER GALLON @ 60 F.</td>
<td>6.79</td>
</tr>
<tr>
<td>VAPOR PRESSURE @ 70 F. (MM HG)</td>
<td>N/A</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER, % BY WT.</td>
<td>NOT SOLUBLE</td>
</tr>
<tr>
<td>PERCENT VOLATILE BY WEIGHT</td>
<td>95</td>
</tr>
<tr>
<td>EVAPORATION RATE (MINUTES)</td>
<td></td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>CLEAR, OILY, COLORLESS LIQUID, SLIGHT ETHEREAL ODOR</td>
</tr>
</tbody>
</table>

## SECTION III. HAZARDOUS INGREDIENTS

**MATERIAL:**  
**APPROX. WEIGHT %:**  
**CAS NUMBER:**  
**PEL(OSHA):**  
<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>APPROX. WEIGHT %</th>
<th>CAS NUMBER</th>
<th>PEL(OSHA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMETHYLPOLYSILOXANE</td>
<td>5.0</td>
<td>63148-62-9</td>
<td>N/A</td>
</tr>
<tr>
<td>DIMETHYL ETHER</td>
<td>63.0</td>
<td>115-10-6</td>
<td>1000 PPM</td>
</tr>
<tr>
<td>1,2 DIFLUOROETHANE</td>
<td>32</td>
<td>75-37-6</td>
<td>1000</td>
</tr>
</tbody>
</table>

**CONTAINS NO OZONE DEPLETING CHEMICALS**  
ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA DIRECTORY

## SECTION IV. FIRE AND EXPLOSION HAZARD DATA

**FLAMMABLE LIMITS IN AIR:**  
**LEL:**  
**UEL:**  
**FLASH POINT:** N/A  
**AEROSOL FLAME PROJECTION TEST:** 18˚ FLAME PROJECTION AS DETERMINED BY THE AEROSOL FLAME PROJECTION TEST. FOR SAFETY PURPOSE, D-M-E CONSIDERS THIS PRODUCT FLAMMABLE.

**EXTINGUISHING MEDIA:** DRY CHEMICAL, CO2, FOAM  
**SPECIAL FIRE FIGHTING PROCEDURES:** SELF CONTAINED BREATHING APPARATUS  
**UNUSUAL FIRE & EXPLOSION HAZARDS:** AEROSOLS MAY RUPTURE VIOLENTLY AT TEMPERATURES ABOVE 120 DEGREES F.

## SECTION V. REACTIVITY DATA

**STABILITY:** STABLE  
**INCOMPATIBILITY (MATERIALS TO AVOID):** POWDERED OR ALKALINE EARTH METALS  
**HAZARDOUS COMBUSTION BY-PRODUCTS:** HF AND OTHER FLUORINE COMPOUNDS  
**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR  
**CONDITIONS TO AVOID:** OPEN FLAMES AND HIGH TEMPERATURES
SECTION VI. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 1,000 PPM

* EFFECTS OF OVEREXPOSURE *

INGESTION (SWALLOWING): N/A
INHALATION: EXCESSIVE INHALATION CAN PRODUCE DIZZINESS, NAUSEA, and HEADACHE.
SKIN CONTACT: CONCENTRATED SPRAY MAY CAUSE FREEZING OF SKIN AREA
EYE CONTACT: TEMPORARY IRRITATION

* EMERGENCY AND FIRST AID PROCEDURES *

SKIN: WASH WITH SOAP AND WATER
INHALATION: REMOVE TO FRESH AIR LOCATION
EYES: FLUSH WITH PLENTY OF WATER, CALL PHYSICIAN IMMEDIATELY.

SECTION VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: REMOVE LEAKING CONTAINER TO OUTSIDE DISPOSAL SITE.
WASTE DISPOSAL METHOD: EMPTY FULLY, INCLUDING GAS PRESSURE. DO NOT PUNCTURE OR INCINERATE. CAN BE RECYCLED OR ALTERNATIVELY REMOVED TO A SANITARY LANDFILL IN MOST LOCALITIES. CHECK APPLICABLE REGULATIONS.

SECTION VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): NOT NEEDED WITH ADEQUATE VENTILATION
VENTILATION: ADEQUATE VENTILATION NEEDED
PROTECTIVE GLOVES: RECOMMENDED BUT NOT REQUIRED
EYE PROTECTION: PROPER EYE CARE SHOULD BE PRACTICED IN ALL INDUSTRIAL OPERATIONS
OTHER PROTECTIVE EQUIPMENT: AS YOUR COMPANY REQUIRES.

SECTION IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE INDOORS AWAY FROM DIRECT SUNLIGHT, BELOW 120° F. DO NOT DROP, PUNCTURE, OR INCINERATE. OTHER PRECAUTIONS: DO NOT SPRAY DIRECTLY INTO FLAME. DO NOT SMOKE WHILE USING PRODUCT. DO NOT SPRAY ON FLOORS.

SECTION X. CARCINOGENIC HAZARD

NO COMPONENT IN THIS PRODUCT HAS BEEN LISTED AS A CARCINOGEN BY IARU, N.T.P., OSHA, OR ACGIH.

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