



# Safety Data Sheet

Version 7.0  
Revision Date: 11/09/2019

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **Poly(dimethylsiloxane-co-methylhydrosiloxane)**, random copolymer  
Product abbreviation: DMSMeSiHran  
Product use: For laboratory research purposes.  
Supplier / Manufacturer: Polymer Source, Inc.  
Address: 124 Avro street, Dorval (Montreal), Quebec H9P 2X8, Canada  
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## 2. HAZARDS IDENTIFICATION

Emergency overview: WHMIS classification: B3. Combustible liquid.  
GHS classification: Flammable liquids (Category 4);  
Skin irritation (Category 2);  
Eye irritation (Category 2A);  
Specific target organ toxicity – Single exposure (Category 3).

GHS Label elements, including precautionary statements:

Pictogram:



Signal word:

Warning

Hazard statements:

H227. Combustible liquid.  
H315. Causes skin irritation.  
H319. Causes serious eye irritation.  
H335. May cause respiratory irritation.

Precautionary statements:

P261. Avoid breathing dust, fume, gas, mist, vapours, spray.  
P305 + P351 + P338. *IF IN EYES:*  
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS classification: Health hazard: 0  
Flammability: 2  
Physical hazards: 0

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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|                      |  |                                 |
|----------------------|--|---------------------------------|
| Formula:             | Poly(dimethylsiloxane- <i>co</i> -methylhydrosiloxane):  | $[(C_2H_6SiO)_x (CH_4SiO)_y]_n$ |
| Concentration:       | $\leq 100\%$   |                                 |
| CAS registry number: | Poly(dimethylsiloxane- <i>co</i> -methylhydrosiloxane), trimethylsilyl terminated:<br>68037-59-2 |                                 |

### 4. FIRST AID MEASURES

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|                          |   |
|--------------------------|---|
| General advice:          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.                   |
| If inhaled:              | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.             |
| In case of skin contact: | Wash off with soap and plenty of water. Consult a physician.  |
| In case of eye contact:  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                                      |
| If swallowed:            | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

### 5. FIRE-FIGHTING MEASURES

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|--|--|-------------------|
| Conditions of flammability:                    | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat / sparks / open flame / hot surface. No smoking.  |                   |
| Suitable extinguishing media:                  | For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. |                   |
| Special protective equipment for firefighters: | Wear self contained breathing apparatus for firefighting if necessary.   |                   |
| Hazardous combustion products:                 | Hazardous decomposition products formed under fire conditions: Carbon oxides, Silicon oxides.  |                   |
| Explosion data:                                | Sensitivity to mechanical impact:  | no data available |
|  | Sensitivity to static discharge:   | no data available |

### 6. ACCIDENTAL RELEASE MEASURES

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|                       |   |
|-----------------------|---|
| Personal precautions: | Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
|-----------------------|---|

|  |   |
|--|---|
| Environmental precautions:                             | Prevent further leakage or spillage if safe to do so. Do not let product enter drains.  |
| Methods and materials for containment and cleaning up: | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal. |

## 7. HANDLING AND STORAGE

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|                                |  |
|--------------------------------|--|
| Precautions for safe handling: | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the build up of electrostatic charge. |
| Conditions for safe storage:   | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.                        |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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|                                  |   |
|----------------------------------|---|
| Personal protective equipment:   |   |
| • Respiratory protection:        | Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| • Hand protection:               | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  |
| • Eye protection:                | Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  |
| • Skin and body protection:      | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  |
| • Hygiene measures:              | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.  |
| • Specific engineering controls: | Use mechanical exhaust or laboratory fumehood to avoid exposure.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|              |         |                   |
|--------------|---------|-------------------|
| Appearance:  | Form:   | Viscous liquid    |
|              | Colour: | Colourless        |
| Safety data: | pH:     | no data available |

|   |   |
|---|---|
| Melting point / Freezing point:         | no data available                               |
| Boling point:                           | (lit.): > 93 °C (> 199 °F)                      |
| Flash point:                            | (lit.): 65.6 °C (150.1 °F) – closed cup         |
| Ignition temperature:                   | no data available                               |
| Auto-ignition temperature:              | no data available                               |
| Lower explosion limit:                  | no data available                               |
| Upper explosion limit:                  | no data available                               |
| Vapour pressure:                        | no data available                               |
| Density:                                | (lit.): 0.99 g/cm <sup>3</sup> at 25 °C (77 °F) |
| Water solubility:                       | no data available                               |
| Partition coefficient: n-octanol/water: | no data available                               |
| Relative vapour density:                | no data available                               |
| Odour:                                  | no data available                               |
| Odour threshold:                        | no data available                               |
| Evaporation rate:                       | no data available                               |

## 10. STABILITY AND REACTIVITY

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|                                     |  |
|-------------------------------------|--|
| Chemical stability:                 | Stable under recommended storage conditions.   |
| Possibility of hazardous reactions: | no data available  |
| Conditions to avoid:                | Tin/tin oxides. Avoid moisture. Heat, flames and sparks.   |
| Materials to avoid:                 | Strong oxidizing agents, acids, bases.   |
| Hazardous decomposition products:   | Hazardous decomposition products formed under fire conditions:<br>Carbon oxides, Silicon oxides.<br><br>Other decomposition products: no data available. |

## 11. TOXICOLOGICAL INFORMATION

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|                                    |                                      |   |
|------------------------------------|--------------------------------------|---|
| Acute toxicity:                    | Oral LD50:                           | no data available   |
|                                    | Inhalation LC50:                     | no data available   |
|                                    | Dermal LD50:                         | no data available   |
|                                    | Other information on acute toxicity: | no data available   |
| Skin corrosion/irritation:         | no data available                    |   |
| Serious eye damage/eye irritation: | no data available                    |   |
| Respiratory or skin sensitization: | 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. |
| Reproductive toxicity:          | no data available   |  |
| Teratogenicity:                 | no data available   |  |
| Specific target organ toxicity: | Single exposure (Globally Harmonized System):   | no data available  |
|                                 | Repeated exposure (Globally Harmonized System):   | no data available  |
| Aspiration hazard:              | no data available   |  |
| Potential health effects:       | Inhalation:   | May be harmful if inhaled.<br>May cause respiratory tract irritation.  |
|                                 | Ingestion:  | May be harmful if swallowed.   |
|                                 | Skin:   | May be harmful if absorbed through skin.<br>May cause skin irritation.   |
|                                 | Eyes:   | May cause eye irritation.  |
|                                 | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |  |
| Signs and symptoms of exposure: | 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:  | not available  |

## 12. ECOLOGICAL INFORMATION

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|                                |                   |
|--------------------------------|-------------------|
| 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 |

## 13. DISPOSAL CONSIDERATIONS

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|                         |   |
|-------------------------|---|
| Product:                | This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. |
| Contaminated packaging: | Dispose of as unused product.   |

## 14. TRANSPORT INFORMATION

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|           |                      |
|-----------|----------------------|
| DOT (US): | Not dangerous goods. |
| IMDG:     | Not dangerous goods. |
| IATA:     | Not dangerous goods. |

## 15. REGULATORY INFORMATION

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WHMIS classification: B3. Combustible liquid.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. OTHER INFORMATION

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Date of the latest revision: 11 September 2019

Further information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Polymer Source, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.polymersource.ca](http://www.polymersource.ca) for additional terms and conditions of sale.