

# SAFETY DATA SHEET

| 1. Identification   |   |  |
|---|---|--|
| Product identifier: TSE3854DS                             |   |  |
| Other means of identification<br>Synonyms:                | Silicone Elastomer  |  |
| Recommended use and restric                               | tion on use   |  |
| Recommended use: Silicone<br>Restrictions on use: Not kno |   |  |
| Manufacturer/Importer/Distr<br>ibutor Information         | <ul> <li>Momentive Performance Materials USA LLC<br/>2750 Balltown Road,<br/>Niskayuna, NY 12309</li> </ul> |  |
| Contact person  | : commercial.services@momentive.com   |  |
| Telephone   | : General information<br>+1-800-295-2392  |  |
| Emergency telephone<br>number<br>Supplier                 | : CHEMTREC<br>1-800-424-9300  |  |

# 2. Hazard(s) identification

## **Hazard Classification**

## **Health Hazards**

Toxic to reproduction

Category 2

## **Label Elements**

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

H361f; Suspected of damaging fertility.

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| Precautionary<br>Statements                        |  |
|--|--|
| Prevention:  | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. |
| Response:  | IF exposed or concerned: Get medical advice/attention.   |
| Storage:   | Store locked up.   |
| Disposal:  | Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.                               |
| Hazard(s) not otherwise<br>classified (HNOC):      | None.  |
| Substance(s) formed under th<br>conditions of use: | e Generates methanol during cure.  |

## 3. Composition/information on ingredients

## **Mixtures**

| Chemical Identity                                 | CAS number | Content in percent (%)* | Notes   |
|---|------------|-------------------------|---|
| (1) QUARTZ  | 14808-60-7 | 20 - <50%               | # This substance<br>has workplace<br>exposure limit(s). |
| Titanium, Bis(ethyl<br>acetoacetate)-diisopropoxy | 27858-32-8 | 1 - <5%                 | No data available.                                      |
| (1) TITANIUM DIOXIDE                              | 13463-67-7 | 0.1 - <1%               | # This substance<br>has workplace<br>exposure limit(s). |
| (1) Carbon Black                                  | 1333-86-4  | 0.1 - <1%               | # This substance<br>has workplace<br>exposure limit(s). |
| Octamethylcyclotetrasiloxane                      | 556-67-2   | 0.1 - <1%               | No data available.                                      |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

## 4. First-aid measures

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MOMENTIVE inventing possibilities

| Ingestion:  | If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.   |  |
|---|--|--|
| Inhalation:   | If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.  |  |
| Skin Contact:   | To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.  |  |
| Eye contact:  | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  |  |
| Most important symptoms/effects   | s, acute and delayed   |  |
| Symptoms:   | No data available.   |  |
| Hazards:  | No data available.   |  |
| Indication of immediate medical   | attention and special treatment needed   |  |
| Treatment:  | Treatment is symptomatic and supportive.   |  |
| 5. Fire-fighting measures   |  |  |
|   |  |  |
| General Fire Hazards:   | Use standard firefighting procedures and consider the hazards of other involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  |  |
| General Fire Hazards:<br>Suitable (and unsuitable) extinge  | involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.   |  |
|   | involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.   |  |
| Suitable (and unsuitable) exting<br>Suitable extinguishing  | involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.   |  |
| Suitable (and unsuitable) exting<br>Suitable extinguishing<br>media:<br>Unsuitable extinguishing  | <ul> <li>involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</li> <li>uishing media</li> <li>All standard extinguishing agents are suitable.</li> </ul>   |  |
| Suitable (and unsuitable) extingu<br>Suitable extinguishing<br>media:<br>Unsuitable extinguishing<br>media:<br>Specific hazards arising from  | <ul> <li>involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</li> <li>uishing media</li> <li>All standard extinguishing agents are suitable.</li> <li>Do not use water jet as an extinguisher, as this will spread the fire.</li> <li>In case of fire, carbon monoxide and carbon dioxide may be formed.</li> </ul>   |  |
| Suitable (and unsuitable) extinguishing<br>Suitable extinguishing<br>media:<br>Unsuitable extinguishing<br>media:<br>Specific hazards arising from<br>the chemical:                                   | <ul> <li>involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</li> <li>uishing media</li> <li>All standard extinguishing agents are suitable.</li> <li>Do not use water jet as an extinguisher, as this will spread the fire.</li> <li>In case of fire, carbon monoxide and carbon dioxide may be formed.</li> </ul>   |  |
| Suitable (and unsuitable) extinguishing<br>media:<br>Unsuitable extinguishing<br>media:<br>Specific hazards arising from<br>the chemical:<br>Special protective equipment ar<br>Special fire fighting | <ul> <li>involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</li> <li>uishing media</li> <li>All standard extinguishing agents are suitable.</li> <li>Do not use water jet as an extinguisher, as this will spread the fire.</li> <li>In case of fire, carbon monoxide and carbon dioxide may be formed.</li> <li>ind precautions for firefighters</li> <li>Move container from fire area if it can be done without risk. Cool fire-</li> </ul> |  |



# 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures: | Avoid contact with skin and eyes. Use only in well-ventilated areas.<br>Remove contact lenses before using sealant. Do not handle lenses until all<br>sealant has been cleaned from the finger and hands. Keep out of reach of<br>children. See Section 8 of the SDS for Personal Protective Equipment. |
|--|---|
| Methods and material for<br>containment and cleaning<br>up:                | Wipe, scrape or soak up in an inert material and put in a container for<br>disposal. Wash walking surfaces with detergent and water to reduce<br>slipping hazard. Wear proper protective equipment as specified in the<br>protective equipment section.   |
| Notification Procedures:   | Remove sources of ignition. In case of spills, beware of slippery floors and surfaces.  |
| 7. Handling and storage  |   |
| Precautions for safe handling:   | Methanol is formed during processing. Ammonia is formed during processing. Wear appropriate personal protective equipment. Sensitivity to static discharge is not expected.   |
| Conditions for safe storage,<br>including any<br>incompatibilities:        | Keep container closed.  |

## 8. Exposure controls/personal protection

## **Control Parameters**

#### **Occupational Exposure Limits**

| Chemical Identity                | Туре         | Exposure Limit Values                                    | Source   |
|----------------------------------|--------------|--|--|
| (1) QUARTZ - Respirable dust.    | REL          | 0.05 mg/m3   | US. NIOSH: Pocket Guide to Chemical<br>Hazards, as amended (2010)  |
| (1) QUARTZ - Respirable dust.    | TWA          | 0.05 mg/m3   | US. OSHA Specifically Regulated Substances<br>(29 CFR 1910.1001-1053), as amended (03<br>2016)               |
|                                  | OSHA_AC<br>T | 0.025 mg/m3  | US. OSHA Specifically Regulated Substances<br>(29 CFR 1910.1001-1053), as amended (03<br>2016)               |
| (1) QUARTZ - Respirable dust.    | PEL          | 0.05 mg/m3   | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000), as<br>amended (03 2016)                |
|                                  | TWA          | 0.1 mg/m3  | US. OSHA Table Z-1-A (29 CFR 1910.1000),<br>as amended (1989)  |
| (1) QUARTZ - Particulate.        | AN ESL       | 0.27 µg/m3   | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality), as<br>amended (11 2016)  |
| (1) QUARTZ - Respirable<br>dust. | TWA PEL      | 0.05 mg/m3   | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants, as<br>amended (10 2016) |
| (1) QUARTZ - Respirable.         | TWA          | 2.4 millions<br>of particles<br>per cubic foot<br>of air | US. OSHA Table Ź-3 (29 CFR 1910.1000), as<br>amended (2000)  |
|                                  | TWA          | 0.1 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000), as  |



|  |         |   | amended (2000)  |
|--|---------|---|---|
| (1) QUARTZ                                     | IDLH    | 50 mg/m3  | US. NIOSH. Immediately Dangerous to Life or   |
| (1) QUARTZ - Respirable dust.                  | TWA     | 0.050 mg/m3   | Health (IDLH) Values, as amended (10 2017)<br>US. Tennessee. OELs. Occupational Exposure<br>Limits, Table Z1A, as amended (01 2019) |
| (1) QUARTZ - Particulate.                      | ST ESL  | 14 µg/m3  | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality), as  |
| (1) QUARTZ - Respirable fraction.              | TWA     | 0.025 mg/m3   | amended (06 2018)<br>US. ACGIH Threshold Limit Values, as<br>amended (02 2020)  |
| (1) TITANIUM DIOXIDE                           | TWA     | 10 mg/m3  | amended (02 2020)<br>US. ACGIH Threshold Limit Values, as<br>amended (03 2015)  |
| (1) TITANIUM DIOXIDE -<br>Total dust.          | PEL     | 15 mg/m3  | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000), as<br>amended (02 2006)                                       |
|  | TWA     | 10 mg/m3  | US. OSHA Table Z-1-A (29 CFR 1910.1000),<br>as amended (1989)   |
|  | TWA     | 10 mg/m3  | US. Tennessee. OELs. Occupational Exposure<br>Limits, Table Z1A, as amended (06 2008)   |
| (1) TITANIUM DIOXIDE -<br>Particulate.         | ST ESL  | 50 µg/m3  | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality), as<br>amended (11 2016)                         |
|  | AN ESL  | 5 µg/m3   | US. Texas. Effects Screening Levels (Texas<br>Commission on Environmental Quality), as<br>amended (11 2016)                         |
| (1) TITANIUM DIOXIDE -<br>Total dust.          | TWA PEL | 10 mg/m3  | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants, as<br>amended (01 2015)                        |
| (1) TITANIUM DIOXIDE -<br>Respirable fraction. | TWA PEL | 5 mg/m3   | US. California Code of Regulations, Title 8,<br>Section 5155. Airborne Contaminants, as<br>amended (01 2015)                        |
|  | TWA     | 15 millions of<br>particles per<br>cubic foot of<br>air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)   |
| (1) TITANIUM DIOXIDE -<br>Total dust.          | TWA     | 15 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)   |
| (1) TITANIUM DIOXIDE -<br>Respirable fraction. | TWA     | 5 mg/m3   | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)   |
| (1) TITANIUM DIOXIDE -<br>Total dust.          | TWA     | 50 millions of<br>particles per<br>cubic foot of<br>air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)   |
| (1) TITANIUM DIOXIDE -<br>Respirable fraction. | TWA     | 0.2 mg/m3   | US. ACGIH Notice of Intended Changes (NIC)<br>to Threshold Limit Values, as amended (01<br>2021)                                    |
|  | TWA     | 2.5 mg/m3   | US. ACGIH Notice of Intended Changes (NIC)<br>to Threshold Limit Values, as amended (01<br>2021)                                    |
| (1) TITANIUM DIOXIDE                           | IDLH    | 5,000 mg/m3   | US. NOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)   |
| (1) Carbon Black - Inhalable fraction.         | TWA     | 3 mg/m3   | US. ACGIH Threshold Limit Values, as<br>amended (03 2015)   |
| (1) Carbon Black                               | REL     | 0.1 mg/m3   | US. NIOSH: Pocket Guide to Chemical<br>Hazards, as amended (2010)   |
|  | REL     | 3.5 mg/m3   | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)  |
|  | PEL     | 3.5 mg/m3   | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000), as<br>amended (02 2006)                                       |
|  | TWA     | 3.5 mg/m3   | US. OSHA Table Z-1-A (29 CFR 1910.1000),<br>as amended (1989)   |
| (1) Carbon Black - Inhalable fraction.         | TWA     | 3 mg/m3   | US. ACGIH Threshold Limit Values, as amended (03 2015)  |
| (1) Carbon Black                               | REL     | 3.5 mg/m3   | US. NIOSH: Pocket Guide to Chemical   |



|                                |         |                      | Hazards, as amended (2010)                   |
|--------------------------------|---------|----------------------|--|
| (1) Carbon Black - as PAHs     | REL     | 0.1 mg/m3            | US. NIOSH: Pocket Guide to Chemical          |
|                                |         | _                    | Hazards, as amended (2016)                   |
| (1) Carbon Black               | PEL     | 3.5 mg/m3            | US. OSHA Table Z-1 Limits for Air            |
|                                |         | Ũ                    | Contaminants (29 CFR 1910.1000), as          |
|                                |         |                      | amended (02 2006)                            |
|                                | TWA     | 3.5 mg/m3            | US. OSHA Table Z-1-A (29 CFR 1910.1000),     |
|                                |         |                      | as amended (1989)                            |
|                                | TWA     | 3.5 mg/m3            | US. Tennessee. OELs. Occupational Exposure   |
|                                |         | _                    | Limits, Table Z1A, as amended (06 2008)      |
|                                | TWA PEL | 3.5 mg/m3            | US. California Code of Regulations, Title 8, |
|                                |         | _                    | Section 5155. Airborne Contaminants, as      |
|                                |         |                      | amended (01 2015)                            |
|                                | IDLH    | 1,750 mg/m3          | US. NIOSH. Immediately Dangerous to Life or  |
|                                |         |                      | Health (IDLH) Values, as amended (10 2017)   |
| (1) Carbon Black -             | ST ESL  | 35 µg/m3             | US. Texas. Effects Screening Levels (Texas   |
| Particulate.                   |         |                      | Commission on Environmental Quality), as     |
|                                |         |                      | amended (06 2018)                            |
|                                | ANESL   | 3.5 µg/m3            | US. Texas. Effects Screening Levels (Texas   |
|                                |         |                      | Commission on Environmental Quality), as     |
|                                |         |                      | amended (06 2018)                            |
| (1) Carbon Black -             | TWA     | 5 mg/m3              | US. OSHA Table Z-3 (29 CFR 1910.1000), as    |
| Respirable fraction.           |         |                      | amended (09 2016)                            |
|                                | TWA     | 15 millions of       | US. OSHA Table Z-3 (29 CFR 1910.1000), as    |
|                                |         | particles per        | amended (09 2016)                            |
|                                |         | cubic foot of        |  |
|                                | 77.4/4  | air                  |  |
| (1) Carbon Black - Total dust. | TWA     | 50 millions of       | US. OSHA Table Z-3 (29 CFR 1910.1000), as    |
|                                |         | particles per        | amended (09 2016)                            |
|                                |         | cubic foot of<br>air |  |
|                                | TWA     | •                    | US OSHA Table 7.2/20 CER 1010 1000) as       |
|                                | IWA     | 15 mg/m3             | US. OSHA Table Z-3 (29 CFR 1910.1000), as    |
|                                |         |                      | amended (09 2016)                            |

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

| Appropriate Engineering | Eye wash facilities and emergency shower must be available when |
|-------------------------|---|
| Controls                | handling this product.  |

## Individual protection measures, such as personal protective equipment

| General information:                | Wear suitable gloves and eye/face protection.  |
|-------------------------------------|--|
| Eye/face protection:                | Safety glasses with side shields   |
| Skin Protection<br>Hand Protection: | Cloth gloves.  |
| Other:                              | Wear suitable protective clothing and eye/face protection.   |
| Respiratory Protection:             | If inhalation exposure is expected, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134). |



| Hygiene measures:        | Avoid contact with eyes, skin, and clothing. Wash hands after handling.<br>When using do not eat or drink. |
|--------------------------|--|
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# 9. Physical and chemical properties

| Appearance  |  |
|---|--|
| Physical state:   | solid  |
| Form:   | Paste  |
| Color:  | Gray   |
| Odor:   | Faint  |
| Odor threshold:   | No data available.   |
| pH:   | No data available.   |
| Melting point/freezing point:   | No data available.   |
| Initial boiling point and boiling range:  | No data available.   |
| Flash Point:  | 98 °C  |
| Evaporation rate:   | No data available.   |
| Flammability (solid, gas):  | No data available.   |
| Upper/lower limit on flammability or explosi  | ve limits  |
| Flammability limit - upper (%):   | No data available.   |
| Flammability limit - lower (%):   | No data available.   |
| Explosive limit - upper:  | No data available.   |
| Explosive limit - lower:  | No data available.   |
| Heat of combustion:   | No data available.   |
| Heat of compusiton.   |  |
| Vapor pressure:   | No data available.   |
|   |  |
| Vapor pressure:   | No data available.   |
| Vapor pressure:<br>Vapor density:   | No data available.<br>No data available.   |
| Vapor pressure:<br>Vapor density:<br>Density:   | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:  | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:<br>Solubility(ies)   | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)<br>No data available.   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:<br>Solubility(ies)<br>Solubility in water:   | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)<br>No data available.<br>No data available.   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:<br>Solubility(ies)<br>Solubility in water:<br>Solubility (other):<br>Partition coefficient (n-octanol/water) Log   | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)<br>No data available.<br>No data available.<br>No data available.   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:<br>Solubility(ies)<br>Solubility in water:<br>Solubility (other):<br>Partition coefficient (n-octanol/water) Log<br>Pow:   | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)<br>No data available.<br>No data available.<br>No data available.<br>No data available.   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:<br>Solubility(ies)<br>Solubility in water:<br>Solubility (other):<br>Partition coefficient (n-octanol/water) Log<br>Pow:<br>Auto-ignition temperature:   | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)<br>No data available.<br>No data available.<br>No data available.<br>No data available.<br>No data available.   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:<br>Solubility(ies)<br>Solubility in water:<br>Solubility (other):<br>Partition coefficient (n-octanol/water) Log<br>Pow:<br>Auto-ignition temperature:<br>Decomposition temperature:                                 | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)<br>No data available.<br>No data available.<br>No data available.<br>No data available.<br>450 °C<br>No data available.   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:<br>Solubility(ies)<br>Solubility in water:<br>Solubility (other):<br>Partition coefficient (n-octanol/water) Log<br>Pow:<br>Auto-ignition temperature:<br>Decomposition temperature:<br>SADT:                        | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)<br>No data available.<br>No data available.<br>No data available.<br>No data available.<br>A50 °C<br>No data available.<br>No data available.                                   |
| Vapor pressure:<br>Vapor density:<br>Density:<br>Relative density:<br>Solubility(ies)<br>Solubility in water:<br>Solubility (other):<br>Partition coefficient (n-octanol/water) Log<br>Pow:<br>Auto-ignition temperature:<br>Decomposition temperature:<br>SADT:<br>Viscosity, dynamic: | No data available.<br>No data available.<br>1.32 g/cm3 (23 °C)<br>No data available.<br>No data available. |

# 10. Stability and reactivity

**Reactivity:** 

No dangerous reaction if used as recommended.

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Version: 2.1 Revision Date: 03/18/2022

#### TSE3854DS

| Chemical Stability:                    | Material is stable under normal conditions.  |  |
|--|--|--|
| Possibility of hazardous<br>reactions: | Under normal conditions of storage and use, hazardous polymerization will not occur.   |  |
| Conditions to avoid:                   | None known.  |  |
| Incompatible Materials:                | None known.  |  |
| Hazardous Decomposition<br>Products:   | Carbon dioxide Silicon dioxide. Ammonia. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.   |  |
| 11. Toxicological information          |  |  |
| General information:                   | Our Experience shows that our Silicone Elastomer products can be handled<br>without risk to health if used properly and if the usual precautions for<br>industrial hygiene are observed. This product is a mixture containing<br>polymer compounds and hazardous substances as listed in Section 3. The<br>respirable particle(s) listed in Section 3 are inextricably bound within the<br>polymer matrix, and therefore do(es) not present an inhalation hazard<br>during normal use of this product. Tooling or machining of the cured |  |

product (sanding, cutting, milling) may release hazardous, respirable

## Information on likely routes of exposure

No data available.

- Inhalation: No data available.
- Skin Contact: No data available.

**Eye contact:** No data available.

#### Symptoms related to the physical, chemical and toxicological characteristics Ingestion: No data available.

substances.

- Inhalation: No data available.
- Skin Contact: No data available.
- **Eye contact:** No data available.

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

# Oral

Ingestion:

Product: Not classified for acute toxicity based on available data.



| <b>Specified substance(s):</b> (1) TITANIUM DIOXIDE | LD 50 (Rat): > 10,000 mg/kg                                |
|---|--|
| Octamethylcyclotetrasilox ane                       | LD 50 (Rat): > 4,800 mg/kg                                 |
| Dermal<br>Product:                                  | Not classified for acute toxicity based on available data. |
| Specified substance(s):<br>(1) TITANIUM DIOXIDE     | LD 50 (Rabbit): > 10,000 mg/kg                             |
| Octamethylcyclotetrasilox ane                       | LD 50 (Rat): > 2,375 mg/kg                                 |
| Inhalation<br>Product:                              | Not classified for acute toxicity based on available data. |
| Specified substance(s):<br>(1) TITANIUM DIOXIDE     | LC50 (Rat): > 6.8 mg/l                                     |
| Octamethylcyclotetrasilox ane                       | LC50 (Rat): 36 mg/l  |
| Repeated dose toxicity<br>Product:                  | No data available.   |
| Skin Corrosion/Irritation<br>Product:               | No data available.   |
| Serious Eye Damage/Eye Irritation<br>Product:       | on<br>No data available.                                   |
| Respiratory or Skin Sensitizatior<br>Product:       | No data available.   |
| Carcinogenicity<br>Product:                         | No data available.   |



## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogenic components identified

#### **Germ Cell Mutagenicity**

| In vitro<br>Product:  | No data available.   |  |
|---|--|--|
| Specified substance(s):<br>Octamethylcyclotetrasilox<br>ane                     | Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella<br>typhimurium, Reverse Mutation Assay)): negative (not mutagenic)<br>Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic) |  |
| In vivo<br>Product:   | No data available.   |  |
| Specified substance(s):<br>Octamethylcyclotetrasilox<br>ane                     | Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative  |  |
| Reproductive toxicity<br>Product:   | No data available.   |  |
| Specific Target Organ Toxicity - Single Exposure<br>Product: No data available. |  |  |
| Specific Target Organ Toxicity -<br>Product:                                    | Repeated Exposure<br>No data available.  |  |
| Aspiration Hazard<br>Product:   | No data available.   |  |
| Other effects:  | Ammonia released during curing.  |  |



| 2. Ecological information                                   |   |
|---|---|
| Ecotoxicity:  |   |
| Acute hazards to the aquatic e                              | environment:  |
| Fish<br>Product:  | No data available.                                    |
| <b>Specified substance(s):</b><br>(1) TITANIUM DIOXIDE      | LC0 (Leuciscus idus, 48 h): > 1,000 mg/l              |
| Octamethylcyclotetrasilox ane                               | LC50 (Oncorhynchus mykiss, 96 h): > 0.022 mg/l        |
| Aquatic Invertebrates<br>Product:                           | No data available.                                    |
| Specified substance(s):<br>Octamethylcyclotetrasilox<br>ane | EC50 (Daphnia magna, 48 h): > 0.015 mg/l              |
| Chronic hazards to the aquati                               | c environment:  |
| Fish<br>Product:  | No data available.                                    |
| Specified substance(s):<br>Octamethylcyclotetrasilox<br>ane | NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l      |
| Aquatic Invertebrates<br>Product:                           | No data available.                                    |
| Specified substance(s):<br>Octamethylcyclotetrasilox<br>ane | NOEC (Daphnia magna, 21 d): > 0.015 mg/l              |
| Toxicity to Aquatic Plants<br>Product:                      | No data available.                                    |
| Specified substance(s):<br>Octamethylcyclotetrasilox<br>ane | ErC50 (Selenastrum capricornutum, 96 h): > 0.022 mg/l |
| Persistence and Degradability                               |   |
| Biodegradation<br>Product:                                  | No data available.                                    |
| Specified substance(s):<br>(1) TITANIUM DIOXIDE             | 0 %   |

MOMENTIVE "

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| Octom official states and  |   |
|--|---|
| Octamethylcyclotetrasilox ane  | 3.7 % (29 d, 310 Ready Biodegradability - $CO_2$ in Sealed Vessels (Headspace Test)) Not readily biodegradable.   |
| BOD/COD Ratio<br>Product:  | No data available.  |
| Bioaccumulative potential  |   |
| Bioconcentration Factor (BC<br>Product:  | No data available.  |
| Specified substance(s):<br>Octamethylcyclotetrasilox<br>ane                      | Fathead Minnow, Bioconcentration Factor (BCF): 12.40  |
| Partition Coefficient n-octane<br>Product:                                       | ol / water (log Kow)<br>No data available.  |
| Mobility in soil:  | No data available.  |
| Known or predicted distribut<br>(1) QUARTZ                                       | ion to environmental compartments<br>No data available.   |
| Titanium, Bis(ethyl  | No data available.  |
| acetoacetate)-diisopropoxy   |   |
| (1) TITANIUM DIOXIDE   | No data available.  |
| <ol> <li>Carbon Black</li> <li>Octamethylcyclotetrasiloxa</li> <li>ne</li> </ol> | No data available.<br>No data available.  |
| Other adverse effects:   | No data available.  |
| 13. Disposal considerations  |   |
| General information:   | The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment. |
| Disposal instructions:   | Disposal should be made in accordance with federal, state and local regulations.  |
| Contaminated Packaging:  | Dispose of as unused product.   |
| 14. Transport information  |   |

## DOT

Not regulated.



#### IMDG

Not regulated.

## IATA

Not regulated.

| Special precautions for user: | This product is not regarded as dangerous goods according to the |
|-------------------------------|--|
|                               | national and international regulations on the transport of       |
|                               | dangerous goods.   |

## 15. Regulatory information

## **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

| <u>Chemical Identity</u><br>METHYLPOLYSILOXAN<br>E    | <u>OSHA hazard(s)</u><br>No OSHA Hazards          |
|---|---|
| (1) QUARTZ  | Toxic by inhalation.; Systemic effects            |
| Zinc carbonate  | No OSHA Hazards                                   |
| Titanium, Bis(ethyl<br>acetoacetate)-<br>diisopropoxy | Causes mild skin irritation.; Respiratory hazard. |
| Methyltrimethoxysilane                                | Causes mild skin irritation.                      |

## CERCLA Hazardous Substance List (40 CFR 302.4):

| Chemical Identity | <b>Reportable quantity</b> |
|-------------------|----------------------------|
| Zinc carbonate    | 1,000 lbs.                 |

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Reproductive toxicity

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



| SARA 304 Emergency Relo<br>None present or nor  | ease Notification   | d quantities.                                     |  |
|---|---|---|--|
| SARA 311/312 Hazardous<br>Chemical Identity   | s Chemical<br><u>Threshold Planning Quantity</u>                                      |   |  |
| US. EPCRA (SARA Title III<br>Chemical Identity<br>Zinc carbonate  | Section 313 Toxic C<br><u>Reporting</u><br><u>threshold for</u><br><u>other users</u> |   |  |
| Clean Water Act Section 311 F   | lazardous Substance   | as (40 CER 117 3)                                 |  |
| <u>Chemical Identity</u><br>Zinc carbonate  | Reportable quantity   | Ŷ   |  |
|   | 12(r) Accidental Related present in regulated   | ease Prevention (40 CFR 68.130):<br>d quantities. |  |
| US State Regulations  |   |   |  |
| US. California Proposition<br>No ingredier  | <b>65</b><br>nt requiring a warning   | under CA Prop 65.                                 |  |
| US. New Jersey Worker an<br><u>Chemical Identity</u><br>METHYLPOLYSILOXANE<br>(1) QUARTZ<br>Treated Fumed Silica<br>Zinc carbonate<br>Titanium, Bis(ethyl acetoac<br>(1) Carbon Black<br>US. Massachusetts RTK -<br><u>Chemical Identity</u><br>(1) QUARTZ<br>Zinc carbonate<br>US. Pennsylvania RTK - Ha<br><u>Chemical Identity</u><br>(1) QUARTZ<br>Zinc carbonate<br>(1) QUARTZ<br>Zinc carbonate<br>(1) Carbon Black | etate)-diisopropoxy<br>Substance List   |   |  |
| US. Rhode Island RTK<br>No ingredient regula  | ted by RI Right-to-Kn   | ow Law present.                                   |  |
| SDS_US  |   |   |  |



## **Inventory Status:**

| ······································ |                      |                            |
|--|----------------------|----------------------------|
| Australia AICS:                        | y (positive listing) | Remarks: None.             |
| EU EINECS List:                        | y (positive listing) | Remarks: None.             |
| Japan (ENCS) List:                     | y (positive listing) | Remarks: None.             |
| China Inventory of Existing            | y (positive listing) | Remarks: None.             |
| Chemical Substances:                   |                      |                            |
| Korea Existing Chemicals Inv.          | y (positive listing) | Remarks: None.             |
| (KECI):                                |                      |                            |
| Canada DSL Inventory List:             | y (positive listing) | Remarks: None.             |
| Canada NDSL Inventory:                 | n (negative listing) | Remarks: None.             |
| Philippines PICCS:                     | y (positive listing) | Remarks: None.             |
| US TSCA Inventory:                     | y (positive listing) | Remarks: On TSCA Inventory |
| Taiwan. Taiwan inventory               | y (positive listing) | Remarks: None.             |
| (CSNN):                                |                      |                            |

# 16.Other information, including date of preparation or last revision

## HMIS Hazard ID

| Health              | *  | 0 |
|---------------------|----|---|
| Flammability        |    | 0 |
| Physical Hazards    |    | 1 |
| PERSONAL PROTECTION | ON |   |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

| Issue Date:          | 03/18/2022         |
|----------------------|--------------------|
| Revision Date:       | No data available. |
| Version #:           | 2.1                |
| Further Information: | No data available. |



**Disclaimer:** 

## Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

## **Further Information**

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 warrantyor 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.

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