

# SAFETY DATA SHEET

1. Identification	
Product identifier: TSE3251	
Other means of identification Synonyms:	Silicone rubber coating
Recommended use and restrie	ction on use
Recommended use: Coating Restrictions on use: Not kno	
Manufacturer/Importer/Distr ibutor Information	: Momentive Performance Materials USA LLC 2750 Balltown Road, Niskayuna, NY 12309
Contact person	: commercial.services@momentive.com
Telephone	: General information +1-800-295-2392
Emergency telephone number Supplier	: CHEMTREC 1-800-424-9300

2. Hazard(s) identification		
Hazard Classification	Not classified	
Label Elements		
Hazard Symbol:	No symbol	
Signal Word:	No signal word.	
Hazard Statement:	Not applicable	
Precautionary Statements	Not applicable	
Hazard(s) not otherwise classified (HNOC):	None.	
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Substance(s) formed under the	Reacts with water or alcohol in presence of acids or bases to release
conditions of use:	hydrogen (flammable gas).

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
(1) TITANIUM DIOXIDE	13463-67-7	0.1 - <1%	# This substance has workplace exposure limit(s).

\* 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	
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:	Wash with soap and water.
Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Most important symptoms/effe	ects, acute and delayed
Symptoms:	No data available.
Hazards:	No data available.
Indication of immediate medi	cal attention and special treatment needed
Treatment:	There is no specific antidote. Treatment is symptomatic and supportive.
5. Fire-fighting measures	
General Fire Hazards:	No data available.



#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	All standard extinguishing agents are suitable.	
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.	
Specific hazards arising from the chemical:	In case of fire, carbon monoxide and carbon dioxide may be formed.	
Special protective equipment an	d precautions for firefighters	
Special fire fighting procedures:	Move container from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters:	Firefighters must wear NIOSH/MSHA approved positive pressure self- contained breathing apparatus with full face mask and full protective clothing.	
6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures:	Keep container closed. Avoid contact with skin and eyes. Keep out of reach of children. May generate formaldehyde at temperatures greater than 150 C(300 F). See Section 8 of the SDS for Personal Protective Equipment.	
Methods and material for	Wipe, scrape or soak up in an inert material and put in a container for	

ethods 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. Wear proper protective equipment as specified in the protective<br/>equipment section.

7. Handling and storage

Precautions for safe handling:	Sensitivity to static discharge is not expected. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Keep away from food, drink and animal feeding stuffs.
Conditions for safe storage, including any incompatibilities:	Store in tightly closed original container in a dry and cool place.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
(1) TITANIUM DIOXIDE	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as
			amended (03 2015)
(1) TITANIUM DIOXIDE -	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air

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<b>-</b>			
Total dust.			Contaminants (29 CFR 1910.1000), as
			amended (02 2006)
	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000),
			as amended (1989)
	TWA	10 mg/m3	US. Tennessee. OELs. Occupational Exposure
			Limits, Table Z1A, as amended (06 2008)
(1) TITANIUM DIOXIDE -	ST ESL	50 µg/m3	US. Texas. Effects Screening Levels (Texas
Particulate.			Commission on Environmental Quality), as
			amended (11 2016)
	ANESL	5 µg/m3	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality), as
			amended (11 2016)
(1) TITANIUM DIOXIDE -	TWA PEL	10 mg/m3	US. California Code of Regulations, Title 8,
Total dust.			Section 5155. Airborne Contaminants, as
			amended (01 2015)
(1) TITANIUM DIOXIDE -	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8,
Respirable fraction.			Section 5155. Airborne Contaminants, as
			amended (01 2015)
	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		particles per	amended (03 2016)
		cubic foot of	
		air	
(1) TITANIUM DIOXIDE -	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Total dust.			amended (03 2016)
(1) TITANIUM DIOXIDE -	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Respirable fraction.			amended (03 2016)
(1) TITANIUM DIOXIDE -	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Total dust.		particles per	amended (03 2016)
		cubic foot of	
		air	
(1) TITANIUM DIOXIDE	IDLH	5,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or
		-	Health (IDLH) Values, as amended (10 2017)
	· · · · · · · · · · · · · · · · · · ·		

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 Eyewash bottle with clean water. Controls

#### Individual protection measures, such as personal protective equipment

General information:	No data available.
Eye/face protection:	Safety glasses with side shields
Skin Protection Hand Protection:	No data available.
Other:	Wear suitable protective clothing, gloves 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:** Observe good industrial hygiene practices. When using do not eat, drink or smoke. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid contact with eyes, skin, and clothing.

#### 9. Physical and chemical properties

#### Appearance

Physical state:	liquid
Form:	liquid
Color:	White
Odor:	Odorless
Odor threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	ca. 330 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosition	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.
Vapor pressure:	Not applicable
Vapor pressure:	Not applicable
Vapor pressure: Vapor density:	Not applicable No data available.
Vapor density:	No data available.
Vapor density: Density:	No data available. No data available.
Vapor density: Density: Relative density:	No data available. No data available.
Vapor density: Density: Relative density: Solubility(ies)	No data available. No data available. No data available.
Vapor density: Density: Relative density: Solubility(ies) Solubility in water:	No data available. No data available. No data available. Insoluble
Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log	No data available. No data available. No data available. Insoluble No data available.
Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow:	No data available. No data available. No data available. Insoluble No data available. No data available.
Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature:	No data available. No data available. No data available. Insoluble No data available. No data available. No data available.
Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature:	No data available. No data available. No data available. Insoluble No data available. No data available. No data available. No data available.
Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature: SADT:	No data available. No data available. No data available. Insoluble No data available. No data available. No data available. No data available. No data available.
Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature: SADT: Viscosity, dynamic:	No data available. No data available. No data available. Insoluble No data available. No data available. No data available. No data available. No data available. No data available. 8,200 mPa·s (23 °C)



## 10. Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Keep away from moisture. Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Oxidizing agents. Strong Acids Alkalies.
Hazardous Decomposition Products:	Carbon dioxide Silicon dioxide. 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

Information on likely routes of exposure Ingestion: No data available.		
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Symptoms related to the physica Ingestion:	al, chemical and toxicological characteristics No data available.	
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 Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): (1) TITANIUM DIOXIDE	LD 50 (Rat): > 10,000 mg/kg	
Dermal Product:	Not classified for acute toxicity based on available data.	

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Specified substance(s): (1) TITANIUM DIOXIDE	LD 50 (Rabbit): > 10,000 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): (1) TITANIUM DIOXIDE	LC50 (Rat): > 6.8 mg/l	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Serious Eye Damage/Eye Irritati Product:	on No data available.	
Specified substance(s): (1) TITANIUM DIOXIDE	No eye irritation	
Respiratory or Skin Sensitizatio Product:	n No data available.	
Carcinogenicity 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 Product:	No data available.	
In vivo Product:	No data available.	

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#### TSE3251

Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity Product:	<ul> <li>Single Exposure</li> <li>No data available.</li> </ul>
Specific Target Organ Toxicity Product:	<ul> <li>Repeated Exposure No data available.</li> </ul>
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

12. Ecological information

#### Ecotoxicity:

#### Acute hazards to the aquatic environment:

Fish Product:	No data available.	
Specified substance(s): (1) TITANIUM DIOXIDE	LC0 (Leuciscus idus, 48 h): > 1,000 mg/l	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
Specified substance(s):		

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(1) TITANIUM DIOXIDE	0 %
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	<b>F)</b> No data available.
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Mobility in soil:	No data available.
Known or predicted distribut (1) TITANIUM DIOXIDE	tion to environmental compartments 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. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.
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> polyvinyIsiloxane	<u>OSHA hazard(s)</u> No OSHA Hazards
Polyalkylalkenylsiloxane	Toxic by skin absorption
Silica	No OSHA Hazards
Methylhydrogenpolysiloxa ne	Skin sensitizer; Respiratory sensitizer
CYCLOSILOXANE ESTER	No OSHA Hazards

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

None present or none present in regulated quantities.

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

#### Hazard categories

Not classified

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical <u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

### US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.



#### **US State Regulations**

US. California Proposition 65



**WARNING:** This product can expose you to chemicals including Methanol, which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

#### US. New Jersey Worker and Community Right-to-Know Act

#### Chemical Identity

polyvinylsiloxane Polyalkylalkenylsiloxane Methylhydrogenpolysiloxane CYCLOSILOXANE ESTER Silica;

#### US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

#### US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.



#### **Inventory Status:**

Australia AICS:	n (negative 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:	q (quantity restricted)	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	1
Physical Hazards	1
PERSONAL PROTECTION	

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

Issue Date:	05/03/2021
Revision Date:	No data available.
Version #:	1.5
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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