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TSE3251

SAFETY DATA SHEET

1. Identification

Product identifier: TSE3251

Other means of identification

Synonyms: Silicone rubber coating

Recommended use and restriction on use

Recommended use: Coating of electronic parts

Restrictions on use: Not known.

Manufacturer/Importer/Distr

ibutor Information

Momentive Performance Materials LLC

260 Hudson River Road Waterford NY 12188

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 conditions of use:

Reacts with water or alcohol in presence of acids or bases to release 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.

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/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical 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.

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⁽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.



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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 and 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 selfcontained 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 containment and cleaning up:

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective 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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T			O / ' / (00 OFD 4040 4000)
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 **Controls**

Eyewash bottle with clean water.

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.

Wear suitable protective clothing, gloves and eye/face protection. Other:

Respiratory Protection: If inhalation exposure is expected, NIOSH/MSHA approved respiratory

> protection should be worn. Supplied air respirators may be required for nonroutine or emergency situations. Respiratory protection must be provided in

accordance with OSHA regulations (see 29CFR 1910.134).

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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 applicableMelting 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 explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

No data available.

No data available.

No data available.

No data available.

Vapor pressure: Not applicable

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water) Log No data available.

Pow:

Auto-ignition temperature: No data available.

Decomposition temperature: No decomposition if stored and applied as directed.

SADT:No data available.Viscosity, dynamic:8,200 mPa⋅s (23 °C)Viscosity, kinematic:No data available.VOC:No data available.

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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.

Eve contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: 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 Irritation

Product: No data available.

Specified substance(s):

(1) TITANIUM DIOXIDE No eye irritation

Respiratory or Skin Sensitization

Product: 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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Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

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 (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

(1) TITANIUM DIOXIDE 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.

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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

Chemical IdentityOSHA hazard(s)polyvinylsiloxaneNo OSHA Hazards

Polyalkylalkenylsiloxane Toxic by skin absorption

Silica No OSHA Hazards

Methylhydrogenpolysiloxa Skin sensitizer; Respiratory sensitizer

ne

CYCLOSILOXANE No OSHA Hazards

ESTER

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.

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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.

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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.

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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 ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, 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.

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