

Revision Date: 11/14/2019

#### TSE3281-G

# SAFETY DATA SHEET

## 1. Identification

Product identifier: TSE3281-G

Other means of identification

Synonyms: Silicone Adhesive

Recommended use and restriction on use

Recommended use: Industrial use 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: none

Hazard Statement: Not applicable

Precautionary Statements

Prevention: Not applicable

Response: Not applicable

SDS\_US 1/13



Revision Date: 11/14/2019

#### TSE3281-G

Storage: Not applicable

Disposal: Not applicable

Other hazards which do not

None.

result in GHS classification:

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
(1) Aluminum oxide	1344-28-1	50 - <100%	# This substance has workplace exposure limit(s).
polyvinylsiloxane	68083-19-2	14.146%	# This substance has workplace exposure limit(s).

<sup>\*</sup> 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: Do not induce vomiting. Drink plenty of water. Get medical attention

immediately.

Inhalation: If inhaled, move victim to fresh air and seek medical attention.

**Skin Contact:** Wash with soap and water. Get medical attention if symptoms occur.

Eye contact: Rinse the eye with water immediately. If eye irritation persists: Get medical

advice/attention.

Most important symptoms/effects, acute and delayed

No data available. Symptoms:

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

SDS\_US 2/13



Revision Date: 11/14/2019

#### TSE3281-G

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.

## 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. Acute overexposure to the products of combustion may result in irritation of the

respiratory tract.

## Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Cool fire-endangered containers with water.

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. Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep out of reach of children. Remove contact lenses, if present and easy to do. Continue rinsing. 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. Wash walking surfaces with detergent and water to reduce slipping hazard. 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. Do not get in eyes, on skin,

on clothing. Do not taste or swallow. Wear appropriate personal protective

equipment. Protect from moisture.

Conditions for safe storage,

including any incompatibilities:

Keep in a ventilated and dry location, avoid moisture under any circumstances Keep container tightly closed. Use original container or

packaging of similar material of construction

## 8. Exposure controls/personal protection

SDS\_US 3/13



Revision Date: 11/14/2019

#### TSE3281-G

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
(1) Aluminum oxide - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) Aluminum oxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) Aluminum oxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Áluminum oxide - Total dust.	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Aluminum oxide - Respirable fraction.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
(1) Aluminum oxide - Total dust.	TWA	10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
(1) Aluminum oxide - Particulate.	AN ESL	5 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	ST ESL	50 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
(1) Aluminum oxide - Respirable fraction.	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
(1) Aluminum oxide - Total dust.	TWA PEL	10 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
(1) Aluminum oxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
(1) Aluminum oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 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 Controls

Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

**General information:** Ventilation and other forms of engineering controls are preferred for

controlling exposures. Respiratory protection may be needed for non-

routine or emergency situations.

SDS\_US 4/13



Revision Date: 11/14/2019

#### TSE3281-G

**Eye/face protection:** Safety glasses with side shields

**Skin Protection** 

Hand Protection: Chemical resistant gloves

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

**Respiratory Protection:** If exposure limits are exceeded or respiratory irritation is experienced,

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:** Ensure adequate ventilation, especially in confined areas. Wash hands

after handling. When using do not eat, drink or smoke.

# 9. Physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid
Color: Gray
Odor: Faint

Odor threshold:

pH:

No data available.

Not applicable

ca. 300 °C

Evaporation rate:

No data available.

Flammability (solid, gas):

No data available.

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: No data available.

Vapor density:No data available.Density:ca. 2.70 g/cm3

Relative density: ca. 2.1

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): No data available.

SDS\_US 5/13



Revision Date: 11/14/2019

#### TSE3281-G

No data available.

Partition coefficient (n-octanol/water) Log

Pow:

Auto-ignition temperature: ca. 450 °C

Decomposition temperature:No data available.SADT:No data available.Viscosity, dynamic:No data available.Viscosity, kinematic:No data available.

Other information

Minimum ignition temperature: 450 °C

VOC: No data available.

# 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:** Avoid contact with acids and oxidizing substances.

Incompatible Materials: Strong Acids, Strong Bases

**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 physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

Eye contact: No data available.

SDS\_US 6/13



Revision Date: 11/14/2019

#### TSE3281-G

#### Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

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

**Dermal** 

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

Inhalation

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

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

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):

No carcinogenic components identified

SDS\_US 7/13



Revision Date: 11/14/2019

#### TSE3281-G

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

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.

**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.

SDS\_US 8/13



Revision Date: 11/14/2019

#### TSE3281-G

## Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

**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) Aluminum oxide No data available. Polyvinylsiloxane 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.

SDS\_US 9/13



Revision Date: 11/14/2019

#### TSE3281-G

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.

## 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>

SARA 313 (TRI Reporting)

Reporting Reporting threshold for

threshold for manufacturing and

<u>Chemical Identity</u> <u>other users</u> <u>processing</u>

(1) Aluminum oxide

#### 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**

No ingredient requiring a warning under CA Prop 65.

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

#### **Chemical Identity**

(1) Aluminum oxide

SDS\_US 10/13



Revision Date: 11/14/2019

## TSE3281-G

polyvinylsiloxane Cyclotetrasiloxane-2-propanoic acid, .alpha.,2,4,6,6,8-hexamethyl-, 3-(trimethoxysilyl) propyl ester 3-glycidyl-oxypropyl-trimethoxy-silane Methylhydrogenpolysiloxane

# US. Massachusetts RTK - Substance List

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

# US. Pennsylvania RTK - Hazardous Substances

# **Chemical Identity**

(1) Aluminum oxide

## **US. Rhode Island RTK**

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

SDS\_US 11/13



Revision Date: 11/14/2019

# TSE3281-G

# **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:	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 Chemical Substance	y (positive listing)	Remarks: None.
Inventory:		
REACH:	If purchased from Momentive	Remarks: None.
	Performance Materials GmbH in	
	Leverkusen, Germany, all	
	substances in this product have	
	been registered by Momentive	
	Performance Materials GmbH or	
	upstream in our supply chain or are	
	exempt from registration under	
	Regulation (EC) No 1907/2006	
	(REACH). For polymers, this	
	includes the constituent monomers	
	and other reactants.	

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

# **HMIS Hazard ID**

Health	0
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	

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

**Issue Date:** 11/14/2019

Revision Date: No data available.

Version #: 1.11

Further Information: No data available.

SDS\_US 12/13



Revision Date: 11/14/2019

#### TSE3281-G

#### 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.

® and TM indicate trademarks owned by or licensed to Momentive.

SDS\_US 13/13