

Last revised date: 27.02.2022 Supersedes Date: 30.07.2020

#### TSE3280-G

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: TSE3280-G

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Coating of electronic parts

Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distr

ibutor Information

Momentive Performance Materials GmbH Chempark Leverkusen Gebaeude V7

DE - 51368 Leverkusen

Germany

Contact person : commercial.services@momentive.com

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+390510924300 (Customer Service Centre)

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Emergency telephone

Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44

**number** (0) 1235239671

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

The product is not classified for chronic aquatic toxicity, for further details see section 16

2.2 Label Elements Not applicable

Additional Information: No data available.

**2.3 Other hazards** No data available.

#### SECTION 3: Composition/information on ingredients

**Chemical nature:** Polydimethylsiloxane containing vinyl groups, with Platinum catalyst, fillers

and an inhibitor.





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General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Octamethylcyc lotetrasiloxane	>=0,01 - <0,1%	556-67-2	209-136-7	01- 2119529238- 36-XXXX	Aquatic Toxicity (Chronic): 10	PBT, vPvB

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

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#### Classification

Chemical name	Classification	Notes
Octamethylcyclotetrasiloxa	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1:	No data
ne	H410;	available.

CLP: Regulation No. 1272/2008.

#### **SECTION 4: First aid measures**

**General:** Get medical attention if symptoms occur.

4.1 Description of first aid measures

**Inhalation:** Move to fresh air. Get medical attention if symptoms occur.

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

advice/attention.

**Skin Contact:** After contact with skin, remove product mechanically. Wash area with soap

and water.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Consult a

physician for specific advice.

4.2 Most important symptoms and effects, both acute and

delayed:

None known.

#### 4.3 Indication of any immediate medical attention and special treatment needed

**Hazards:** No information about adverse effects due to exposure.

**Treatment:** If swallowed, do NOT induce vomiting. Give a glass of water.

# **SECTION 5: Firefighting 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.

5.1 Extinguishing media
Suitable extinguishing
media:

All standard extinguishing agents are suitable.

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<sup>##</sup> This substance has workplace exposure limit(s).



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Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or

mixture:

In case of fire, carbon monoxide and carbon dioxide may be formed.

5.3 Advice for firefighters Special fire fighting

procedures:

Product may charge electrostatically during pouring or filling. Keep away from sources of ignition - No smoking. All equipment used when handling

the product must be grounded.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective clothing.

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Caution: Contaminated surfaces may be slippery. Use personal protective equipment.

6.2 Environmental Precautions:

Do not allow runoff to sewer, waterway or ground.

6.3 Methods and material for containment and cleaning up:

Pick up with vacuum or absorbent solid, store in closed container for disposal. Caution: Contaminated surfaces may be slippery. Clean surface thoroughly to remove residual contamination.

6.4 Reference to other sections:

Caution: Contaminated surfaces may be slippery. Prevent runoff from entering drains, sewers, or streams.

**SECTION 7: Handling and storage:** 

7.1 Precautions for safe

handling:

Wear appropriate personal protective equipment.

Storage conditions:

Keep away from sources of ignition - No smoking. Store in original

container.

7.2 Conditions for safe storage,

including any incompatibilities: Keep in a ventilated and dry location, avoid moisture under any

circumstances Keep container tightly closed.

Storage Stability: Material is stable under normal conditions.

7.3 Specific end use(s): No data available.

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control Parameters **Occupational Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source			
Aluminum oxide - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs),			
dust.			as amended (12 2011)			
Aluminum oxide - Respirable	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs),			
dust.			as amended (12 2011)			

# **Biological Limit Values** echsil co



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8.2 Exposure controls

**Appropriate Engineering** 

Controls:

Eyewash bottle with clean water. Use only in well-ventilated areas.

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

**General information:** Do not eat, drink or smoke when using the product. Wash hands after

handling. Eye washes and showers for emergency use. Avoid contact with

skin and eyes.

**Eye/face protection:** Safety glasses with side-shields conforming to EN166

Skin protection

**Hand Protection:** Advice: There is no risk to health due to contact with the chemical. Use

hand protection to prevent mechanically injuries.

Other: No data available.

**Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with

adequate ventilation.

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

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

**Environmental exposure** 

controls:

No data available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state:liquidForm:liquidColor:GrayOdor:Faint

Odor Threshold:No data available.pH:No data available.Freezing point:No data available.Boiling Point:Not applicable

Flash Point: 300 °C

**Evaporation Rate:** No data available. No data available. Flammability (solid, gas): Flammability Limit - Upper (%): No data available. Flammability Limit - Lower (%): No data available. Vapor pressure: No data available. Relative vapor density: No data available. Density: ca. 2,1 g/cm3 No data available. Relative density:

Solubility(ies)

Pow:

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Solubility in Water: Insoluble

Solubility (other):

Partition coefficient (n-octanol/water) Log

No data available.

No data available.

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Autoignition Temperature:





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**Decomposition Temperature:** No decomposition if stored and applied as directed.

SADT:

Viscosity, dynamic:

Viscosity, kinematic:

Explosive properties:

No data available.

No data available.

Oxidizing properties:

No data available.

9.2 Other information

No data available.

# **SECTION 10: Stability and reactivity**

**10.1 Reactivity:** No data available.

**10.2 Chemical Stability:** Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

**10.4 Conditions to avoid:** Avoid contact with acids and oxidizing substances.

10.5 Incompatible Materials: Strong Acids, Strong Bases

10.6 Hazardous Decomposition

**Products:** 

Oxides of silicon. Carbon oxides Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of

formaldehyde are formed due to oxidative degradation.

# **SECTION 11: Toxicological information**

**General information:** Experience has shown, that the above mentioned product can be used

without any danger to health, as long as the usual conditions of industrial

hygiene are observed.

Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

#### 11.1 Information on toxicological effects

#### Acute toxicity

Oral

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

Specified substance(s)

Octamethylcyclotetrasilox LD 50 (Rat): > 4.800 mg/kg

ane

Dermal

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

Specified substance(s)

Octamethylcyclotetrasil LD 50 (Rat): > 2.375 mg/kg

oxane

# Inhalation TECS CO 5/11



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

Specified substance(s)

Octamethylcyclotetrasilox LC50 (Rat, 4 h): 36 mg/l

Repeated dose toxicity

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox No data available.

Skin Corrosion/Irritation:

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasil OECD Test Guideline 404 (Rabbit): Non irritating

oxane

Serious Eye Damage/Eye

Irritation:

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasil OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non

oxane irritating

Respiratory or Skin

Sensitization:

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasil Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea

oxane Pig): Not sensitizing

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox

ane

Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

In vivo

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox

ane

Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasilox No data available.

ane

Reproductive toxicity

**Product:** No data available. SILCO\_16/1



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Specified substance(s)

Octamethylcyclotetrasilox No data available.

ane

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasilox No data available.

ane

Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox No data available.

ane

**Aspiration Hazard** 

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox No data available.

ane

Other effects: No data available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Acute toxicity

**Fish** 

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox LC50 (Oncorhynchus mykiss, 96 h): > 0,022 mg/l

ane

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox EC50 (Daphnia magna, 48 h): > 0,015 mg/l

ane

**Chronic Toxicity** 

**Fish** 

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox NOEC (Oncorhynchus mykiss, 93 d): >= 0,0044 mg/l

ane

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox NOEC (Daphnia magna, 21 d): > 0,015 mg/l

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**Toxicity to Aquatic Plants** 

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox

ErC50 (Selenastrum capricornutum, 96 h): > 0,022 mg/l

ane

#### 12.2 Persistence and Degradability

Biodegradation

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox (29 d, 310 Ready Biodegradability - CO<sub>2</sub> in Sealed Vessels (Headspace

ane Test)): 3,7 % Persistent Not readily biodegradable.

**BOD/COD Ratio** 

**Product** No data available.

Specified substance(s)

Octamethylcyclotetrasilox No data available.

ane

12.3 Bioaccumulative potential

**Product:** No data available.

Specified substance(s)

Octamethylcyclotetrasilox Fathead Minnow, Bioconcentration Factor (BCF): 12,40

ane

**12.4 Mobility in soil:** No data available.

Known or predicted distribution to environmental compartments

Octamethylcyclotetrasiloxa No data available.

ne

12.5 Results of PBT and vPvB

assessment:

Octamethylcyclotetrasiloxane Persistent,

Bioaccumulative and Toxic (PBT), very Persistent

No data available.

and very Bioaccumulative

(vPvB)

Octamethylcyclotetrasiloxane (D4) meets the current EU REACh Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., However our understanding of the available science is that D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally

occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water,

to land, or to living organisms.

**12.6 Other adverse effects:** No data available.

# **SECTION 13: Disposal considerations**



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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 methods:** Can be incinerated when in compliance with local regulations.

## **SECTION 14: Transport information**

**ADR** 

Not regulated.

**ADN** 

Not regulated.

**RID** 

Not regulated.

**IMDG** 

Not regulated.

**IATA** 

Not regulated.

14.6 Special precautions for user:

Keep away from food, drink and animal feeding stuffs. This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

**EU Regulations** 

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):



Remarks: None.

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none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 2012/18/EU (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical safety assessment:

(CSNN):

No Chemical Safety Assessment has been carried out.

# **Inventory Status**

Australia AICS: q (quantity restricted) Remarks: None. Canada DSL Inventory List: q (quantity restricted) Remarks: None. **EU EINECS List:** Remarks: None. y (positive listing) Japan (ENCS) List: y (positive listing) Remarks: None. China Inventory of Existing Remarks: None. y (positive listing) Chemical Substances: Korea Existing Chemicals Inv. y (positive listing) Remarks: None. (KECI): Remarks: None. Canada NDSL Inventory:

Canada NDSL Inventory: n (negative listing) Remarks: None. Philippines PICCS: y (positive listing) Remarks: None. US TSCA Inventory: y (positive listing) Remarks: None. New Zealand Inventory of y (positive listing) Remarks: None. Chemicals:

Taiwan. Taiwan inventory y (positive listing) Remarks: None.

REACH:

If purchased from Momentive
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 unde

exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent

monomers and other

reactants.

#### **SECTION 16: Other information**

**Revision Information:** Not relevant.





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Key literature references and sources for data:

The partition coefficient of D4 between PDMS and water has been determined as log KPDMS-water =7.09. It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4  $\mu g$  D4/L in the water phase. The critical 21d-NOEC for daphnia of 7.9  $\mu g$  D4/L will not be reached. The product is therefore not classified for chronic aquatic toxicity

Wording of the H-statements in section 2 and 3: none

**Training information:** No data available.

**Issue Date:** 27.02.2022

Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

#### **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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