

TSE322

# 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: TSE322

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

Identified uses: Coating of electronic parts

Uses advised against: None known.

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials GmbH  
Chempark Leverkusen Gebaeude V7  
DE - 51368 Leverkusen  
Germany

**Contact person** : commercial.services@momentive.com

**Telephone** : General information  
00800.4321.1000 (Customer Service Centre)

### 1.4

**Emergency telephone number** : Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44 (0) 1235239671

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

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

#### Health Hazards

Specific Target Organ Toxicity - Repeated Exposure Category 2<sup>1</sup>. H373: May cause damage to organs through prolonged or repeated exposure.

#### Target Organs

1. Lung

### 2.2 Label Elements

**Contains:** QUARTZ



**Signal Words:** Warning

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**Hazard Statement(s):** H373: May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

**Prevention:** P260: Do not breathe dust/fume/gas/mist/vapors/spray.

**Response:** P314: Get medical advice/attention if you feel unwell.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Unknown toxicity - Health**

Acute toxicity, oral 0 %  
 Acute toxicity, dermal 0 %  
 Acute toxicity, inhalation, vapor 0 %  
 Acute toxicity, inhalation, dust or mist 0 %

**Additional Information:** This product is a mixture containing polymer compounds and hazardous substances as listed in section 3. The relevant hazardous classification according to CLP Directive 1272/2008 is stated in section 2 of this SDS. Although the preparation is classified as a hazardous preparation it does not present a danger to human health by inhalation, ingestion or contact with the skin or to aquatic environment in the form in which it is placed on the market. According to Annex I No. 1.3.4.1 of the Directive 1272/2008 such preparations do not require a label.

**2.3 Other hazards** No data available.

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

**Chemical nature:** Polydimethylsiloxane containing vinyl groups, with platinum catalyst, fillers, crosslinker, an inhibitor and pigment(s).

**3.2 Mixtures**

**General information:** No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
QUARTZ	20 - <50%	14808-60-7	238-878-4	Exempt	No data available.	#
CYCLOSILOXANE ESTER	1 - <5%	113684-56-3	413-690-7	01-0000016083-78-XXXX	No data available.	

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

# # This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

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Chemical name	Classification	Notes
QUARTZ	STOT RE: 2: H373;	
CYCLOSILOXANE ESTER	Aquatic Chronic: 4: H413;	

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.

**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**

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- 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 container tightly closed in a cool, well-ventilated place.
- 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	Type	Exposure Limit Values	Source
QUARTZ - Respirable.	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
QUARTZ - Respirable fraction and dust	TWA	0,1 mg/m3	EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A, as amended (12 2017)
Calcium Carbonate - Respirable.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Calcium Carbonate - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Calcium Carbonate - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Calcium Carbonate - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

**Biological Limit Values**

None.

**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.

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<b>Eye/face protection:</b>	Safety glasses with side-shields conforming to EN166
<b>Skin protection</b>	
<b>Hand Protection:</b>	Advice: There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.
<b>Other:</b>	No data available.
<b>Respiratory Protection:</b>	No protection is ordinarily required under normal conditions of use and with adequate ventilation.
<b>Hygiene measures:</b>	Ensure adequate ventilation, especially in confined areas. Wash hands after handling. When using do not eat, drink or smoke.
<b>Environmental exposure controls:</b>	No data available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Blue
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	> 260 °C (1,013 hPa) (No data available.)
<b>Flash Point:</b>	300 °C (Closed Cup)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	ca. 1,27 g/cm <sup>3</sup>
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
<b>Autoignition Temperature:</b>	ca. 450 °C
<b>Decomposition Temperature:</b>	No decomposition if stored and applied as directed.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	150.000 mPa·s
<b>Viscosity, kinematic:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

**9.2 Other information**  
 No data available.

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**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity:</b>	No data available.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>10.4 Conditions to avoid:</b>	Avoid contact with acids and oxidizing substances.
<b>10.5 Incompatible Materials:</b>	Strong Acids, Strong Bases
<b>10.6 Hazardous Decomposition Products:</b>	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**

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

**11.1 Information on toxicological effects**

**Acute toxicity**

**Oral**

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	LD 50 (Rat): 5.000 mg/kg
ESTER	

**Dermal**

<b>Product:</b>	ATEmix: 54.330,11 mg/kg
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	LD 50 (Rat): 2.000 mg/kg
ESTER	

**Inhalation**

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	No data available.
ESTER	

**Repeated dose toxicity**

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<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	No data available.
ESTER	
<b>Skin Corrosion/Irritation:</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	No data available.
ESTER	
<b>Serious Eye Damage/Eye Irritation:</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	(Rabbit): No eye irritation
ESTER	
<b>Respiratory or Skin Sensitization:</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	Magnusson-Kligmann (Guinea Pig): Did not cause sensitization on laboratory animals.
ESTER	
<b>Germ Cell Mutagenicity</b>	
<b>In vitro</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	No data available.
ESTER	
<b>In vivo</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	Micronucleus test Oral (Mouse): negative (not mutagenic)
ESTER	
<b>Carcinogenicity</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
CYCLOSILOXANE	No data available.
ESTER	
<b>Reproductive toxicity</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
QUARTZ	No data available.

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CYCLOSILOXANE No data available.  
 ESTER

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**Target Organs:**

QUARTZ Lungs

**Aspiration Hazard**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**Other effects:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE EC50 (Daphnia magna, 48 h): > 8 mg/l  
 ESTER

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**



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QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**BOD/COD Ratio**

**Product** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

**12.3 Bioaccumulative potential**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
 CYCLOSILOXANE No data available.  
 ESTER

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

**Known or predicted distribution to environmental compartments**

QUARTZ No data available.  
 CYCLOSILOXANE ESTER No data available.

**12.5 Results of PBT and vPvB assessment:** No data available.

QUARTZ No data available.  
 CYCLOSILOXANE ESTER No data available.

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

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

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- 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 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

**Regulation (EU) 2019/1021 On persistent organic pollutants (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:** none

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

Chemical name	CAS-No.	Concentration
QUARTZ	14808-60-7	20 - 30%

**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:**  
 none

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

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**Inventory Status**

Australia AICS:	n (Negative listing)	Remarks: None.
Canada DSL Inventory List:	q (quantity restricted)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inv. Existing Chemical Substances:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	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: None.
New Zealand Inventory of Chemicals:	y (positive listing)	Remarks: None.
Taiwan Chemical Substance 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 under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

**SECTION 16: Other information**

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**Revision Information:** Not relevant.

**Key literature references and sources for data:** No data available.

**Wording of the H-statements in section 2 and 3**

H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

**Training information:** No data available.

**Issue Date:** 11.06.2020

**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 of our 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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