

TSE 322

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: TSE 322

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

Contact person : MomentiveEMEA.productsteward@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 H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label Elements

Contains: QUARTZ



Signal Words: Warning

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

Target Organs:
Lung

TSE 322

Precautionary Statement

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

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		01-0000016083-78-0000	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.

TSE 322

Classification

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

4.1 Description of first aid measures

- Inhalation:** No data available.
- 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:** Do NOT induce vomiting. If conscious, drink plenty of water. Consult a physician for specific advice.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

- Hazards:** No data available.
- Treatment:** No data available.

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: No data available.

5.2 Special hazards arising from the substance or mixture: No data available.

5.3 Advice for firefighters

Special fire fighting procedures: No data available.

SECTION 6: Accidental release measures

TSE 322

- 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:** Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
- 6.4 Reference to other sections:** No data available.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Wear appropriate personal protective equipment.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a cool, well-ventilated place.
- 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) (12 2011)
Calcium Carbonate - Respirable.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Calcium Carbonate - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Calcium Carbonate - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Calcium Carbonate - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

Biological Limit Values

None.

**8.2 Exposure controls
 Appropriate Engineering Controls:**

No data available.

Individual protection measures, such as personal protective equipment

General information: No data available.

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.

TSE 322

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

SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	No data available.
10.3 Possibility of hazardous reactions:	No data available.

TSE 322

- 10.4 Conditions to avoid:** No data available.
- 10.5 Incompatible Materials:** No data available.
- 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)**
- QUARTZ No data available.
- CYCLOSILOXANE LD 50 (Rat): 5.000 mg/kg
- ESTER

Dermal

- Product:** ATEmix: 37.443,49 mg/kg
- Specified substance(s)**
- QUARTZ No data available.
- CYCLOSILOXANE LD 50 (Rat): 2.000 mg/kg
- ESTER

Inhalation

- Product:** Not classified for acute toxicity based on available data.
- Specified substance(s)**
- QUARTZ No data available.
- CYCLOSILOXANE No data available.
- ESTER

Repeated dose toxicity

- Product:** No data available.
- Specified substance(s)**
- QUARTZ No data available.
- CYCLOSILOXANE No data available.
- ESTER

Skin Corrosion/Irritation:

- Product:** No data available.

TSE 322

Specified substance(s)

QUARTZ No data available.
 CYCLOSILOXANE No data available.
 ESTER

Serious Eye Damage/Eye Irritation:

Product: No data available.
Specified substance(s)
 QUARTZ No data available.
 CYCLOSILOXANE (Rabbit): No eye irritation
 ESTER

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

QUARTZ No data available.
 CYCLOSILOXANE Magnusson-Kligmann (Guinea Pig): Did not cause sensitization on
 ESTER laboratory animals.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

QUARTZ No data available.
 CYCLOSILOXANE No data available.
 ESTER

In vivo

Product: No data available.

Specified substance(s)

QUARTZ No data available.
 CYCLOSILOXANE Micronucleus test Oral (Mouse): negative (not mutagenic)
 ESTER

Carcinogenicity

Product: No data available.

Specified substance(s)

QUARTZ No data available.
 CYCLOSILOXANE No data available.
 ESTER

Reproductive toxicity

Product: No data available.

Specified substance(s)

QUARTZ No data available.
 CYCLOSILOXANE No data available.
 ESTER

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

TSE 322

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

Target Organs:

Lung

Aspiration Hazard

Product: No data available.

Specified substance(s)

QUARTZ No data available.
 CYCLOSILOXANE No data available.
 ESTER

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)

QUARTZ No data available.
 CYCLOSILOXANE No data available.
 ESTER

TSE 322

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

TSE 322

General information: No data available.
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: This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from food, foodstuff, acids and bases.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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 (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

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

TSE 322

given birth or are breast feeding.: none

Directive 96/82/EC (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:	q (quantity restricted)
Canada DSL Inventory List:	q (quantity restricted)
EU EINECS List:	y (positive listing)
Japan (ENCS) List:	y (positive listing)
China Inventory of Existing Chemical Substances:	y (positive listing)
Korea Existing Chemicals Inv. (KECI):	y (positive listing)
Canada NDSL Inventory:	n (Negative listing)
Philippines PICCS:	y (positive listing)
US TSCA Inventory:	y (positive listing)
New Zealand Inventory of Chemicals:	y (positive listing)
Taiwan. Taiwan inventory (CSNN):	y (positive listing)

SECTION 16: Other information

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: 13.06.2016

TSE 322

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 safe handling, 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.