

SAFETY DATA SHEET

Material: 60108790

GENIOPLAST® PELLET 345
thermoplastic silicone elastomer

Version 1.6 (US)

Print Date 12/19/2024

Date of last alteration: 09/13/2024

1. Product and company identification

1.1 Identification of the substance or preparation:

Trade name

GENIOPLAST® PELLET 345
thermoplastic silicone elastomer

Use of the Substance/Mixture

Industrial.
Additive for: Plastics .

1.2 Company/undertaking identification:

Manufacturer/distributor:

Wacker Chemie AG
Gisela-Stein-Straße 1
81671 München
Germany

Customer information:

Wacker Chemical Corporation
4950 S State Road
Ann Arbor, MI 48108
InfoLine:
Tel (517) 264-8240
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wacker.com

Emergency telephone no. (24h):

(517) 264-8500

Transportation emergency:

(800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)

This SDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2. Hazards identification

2.1 Classification of the substance or mixture

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200):

Not a hazardous substance or mixture.

2.2 Label elements

GHS-Labeling:

No labeling according to GHS required.

2.3 Other hazards

No data available.

Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. Composition/information on ingredients

3.1 Chemical characterization (preparation)

Chemical characterization

Polydimethylsiloxane with functional groups

3.2 Information on ingredients:

This material does not contain any ingredients above the permitted limit(s).

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Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.

4. First-aid measures**4.1 General information:**

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

4.2 If inhaled

Material cannot be inhaled under normal conditions. No special treatment required.

4.3 In case of skin contact

After skin contact wipe off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

4.4 In case of eye contact

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min. Get medical attention if irritation occurs.

4.5 If swallowed

No special measures are required after swallowing.

5. Fire-fighting measures**5.1 Flammable properties:**

Property:	Value:	Method:
Flash point.....	exempt	
Burning rate.....	no data available	
Boiling point/boiling range	not applicable	
Lower explosion limit.....	no data available	
Upper explosion limit.....	not applicable	
Ignition temperature	Not applicable.	
NFPA Hazard Class (comb./flam.liquid)	Not applicable	

5.2 Fire and explosion hazards:

This material does not present any unusual fire or explosion hazards.

5.3 Recommended extinguishing media:

Alcohol Resistant (AR) Fluorine Free Foam (F3). Carbon dioxide. Dry chemical. Water - Use Fine Spray or Fog.

5.4 Unsuitable extinguishing media:

sharp water jet

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Hazardous decomposition products: carbon dioxide , carbon monoxide , silicon dioxide , formaldehyde and incompletely burnt hydrocarbons .

5.6 Fire fighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

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6. Accidental release measures

- 6.1 Precautions:**
Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid dust formation. Do not breathe dust. Avoid contact with eyes and skin.

HAZWOPER PPE Level: D
- 6.2 Containment:**
Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Cover any spilled material in accordance with regulations to prevent dispersal by wind. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.
- 6.3 Methods for cleaning up**
Take up mechanically and dispose of according to local/state/federal regulations. Avoid dust formation.

7. Handling and storage

- 7.1 Handling**
Precautions for safe handling:
Avoid dust formation. Observe information in section 8.

Precautions against fire and explosion:
Electrostatic discharge possible during transport and processing. Take precautionary measures against electrostatic charging. Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids. Avoid dust deposit, remove dust regularly.
- 7.2 Storage**
Conditions for storage rooms and vessels:
Observe local/state/federal regulations.

Advice for storage of incompatible materials:
Observe local/state/federal regulations.

Further information for storage:
Store in a dry and cool place.
Maximum temperature allowed during storage and transportation: 30 °C (86 °F)

8. Exposure controls and personal protection

- 8.1 Engineering controls**
Ventilation:
Use with adequate ventilation.

Local exhaust:
No special ventilation required.
- 8.2 Associate substances with specific control parameters such as limit values**
Maximum airborne concentrations at the workplace:

Substance	Type	mg/m ³	ppm	Dust fract.
Particulates not otherwise classified (insoluble or poorly soluble)	OSHA PEL	15.0		Inhalable dust/mist
Particulates not otherwise classified (insoluble or poorly soluble)	OSHA PEL	5.0		Respirable dust/mist
Particulates not otherwise classified (insoluble or poorly soluble)	ACGIH TWA	10.0		Inhalable dust/mist
Particulates not otherwise classified (insoluble or poorly soluble)	ACGIH TWA	3.0		Respirable dust/mist

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Re Particulates not otherwise classified: The value is for particulate matter containing no asbestos and < 1% crystalline silica (ACGIH).

8.3 Personal protection equipment (PPE)

Respiratory protection:

Respiratory protection is not normally required.

Hand protection:

Recommendation: protective gloves .

Eye protection:

Safety glasses with side shields.

Other protective clothing or equipment:

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

8.4 General hygiene and protection measures:

When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

9. Physical and chemical properties

9.1 Appearance

Physical state: solid (1,013 hPa)
Form.....: pellets
Colour: colourless
Odour: odourless

9.2 Safety data

Property:	Value:	Method:
Melting point.....	not applicable	
Boiling point/boiling range	not applicable	
Flash point.....	exempt	
Burning rate.....	no data available	
Ignition temperature	Not applicable.	
Lower explosion limit.....	no data available	
Upper explosion limit.....	not applicable	
Vapour pressure.....	exempt	
Density	0.995 g/cm³ at 25 °C (77 °F)	(ISO 2811 (pycnometer))
Bulk density.....	600 - 700 kg/m³	(DIN 53466)
Water solubility.....	< 0.001 g/l at 20 °C (68 °F)	(OECD 105)
pH	Not applicable. Insoluble in water.	
Partition coefficient: n-octanol/water	not applicable	
Viscosity, kinematic.....	not applicable	

9.3 Further information

No data available.

Odour Threshold: no data available
Thermal decomposition.....: no data available

disturbed dust

Dust explosion class: Not applicable (due to the shape a dust explosion hazard can be excluded).

10. Stability and reactivity

10.1 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

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10.2 Conditions to avoid

Moisture.

10.3 Materials to avoid

None known.

10.4 Hazardous decomposition products

If stored and handled properly: none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.5 Further information:

Hazardous polymerization cannot occur.

11. Toxicological information**11.1 Information on toxicological effects****11.1.1 Acute toxicity****Product details:**

Exposure routes	Result/Effect
Oral	LD50 > 2000 mg/kg Species: Rat, Method: OECD 423, Source: Conclusion by analogy

11.1.2 Skin corrosion/irritation**Product details:**

No skin irritation
(Species: Rabbit, Method: OECD 404, Source: Conclusion by analogy)

11.1.3 Serious eye damage/eye irritation**Product details:**

No eye irritation
(Species: Rabbit, Method: OECD 405, Source: Conclusion by analogy)

11.1.4 Respiratory or skin sensitisation**Product details:**

Exposure routes	Result
Skin contact	Does not cause skin sensitisation. (Species: Mouse, Test system: Local lymph node assay (LLNA), Method: OECD 429, Source: Conclusion by analogy)
Inhalation	No data available.

11.1.5 Germ cell mutagenicity

negative
(Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: Conclusion by analogy)

11.1.6 Carcinogenicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity - single exposure**Assessment:**

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For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity - repeated exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

11.1.11 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.1.12 Further toxicological information

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other information: None known.

12. Ecological information

12.1 Toxicity

Assessment:

Based on available data no acute effects on aquatic organisms that are relevant for classification must be expected for the product up to its limits of water solubility. According to current knowledge adverse effects on water purification plants are not expected.

Product details:

Result/Effect	Species/Test system	Source
LC50: > 100 mg/l Evaluation on basis of physical-chemical properties.	Fish (96 h)	Expert judgement
EC50: > 100 mg/l	static test Desmodesmus subspicatus (green algae) (72 h)	Expert judgement OECD 201
NOEC: 100 mg/l	static test Desmodesmus subspicatus (green algae) (72 h)	Expert judgement OECD 201

12.2 Persistence and degradability

Assessment:

Silicone content: biologically not degradable. Separation by sedimentation.

12.3 Bioaccumulative potential

Assessment:

Polymer component: Bioaccumulation is not expected to occur.

12.4 Mobility in soil

Assessment:

Polymer component: insoluble in water.

12.5 Results of PBT and vPvB assessment

No data available.

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12.6 Endocrine disrupting properties

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12.7 Other adverse effects

none known

13. Disposal considerations**13.1 Product disposal**

Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.2 Packaging disposal

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

14. Transport information**14.1 US DOT & CANADA TDG SURFACE**

Valuation: Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation: Not regulated for transport

15. Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

No SARA Hazards

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

This material does not contain any hazardous air pollutants.

15.2 US State Regulations**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

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This material does not contain any chemicals known to the State of California to cause cancer.

This material does not contain any chemicals known to the State of California to cause reproductive effects.

Massachusetts Right To Know

Product does not contain any listed chemicals

15.3 Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

New Zealand	NZIoC (New Zealand Inventory of Chemicals): This product is listed in, or complies with, the substance inventory.
Australia	AIIC (Australian Inventory of Industrial Chemicals): This product is not listed or in compliance with the substance inventory.
Canada	DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is not listed or in compliance with the substance inventory.
United States of America (USA).....	TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan	TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA).....	REACH (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea)	AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

16. Other information

16.1 Additional information:

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on www.wacker.com. WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

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16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists
DOT - Department of Transportation
hPa - Hectopascals
mPa*s - Milli Pascal-Seconds
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit

ppm - Parts per Million
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average

Flash point determination methods

ASTM D56.....	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679	Setaflash or Rapid closed cup
DIN 51755.....	Abel-Pensky closed cup

Common name**16.3 Conversion table:**

Pressure:.....: 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa
Viscosity:.....: 1 mPa*s = 1 centipoise (cP)