

**SAFETY DATA SHEET**Material: **GENIOPLAST PE50S08**

Version 2.2 (US)

Print Date 01/10/2025

Date of last alteration: 09/13/2024

**1. Product and company identification****1.1 Identification of the substance or preparation:**

**Trade name** **GENIOPLAST PE50S08**  
Use of the Substance/Mixture Industrial.  
Additive for: Plastics

**1.2 Company/undertaking identification:**

**Manufacturer/distributor:** Wacker Chemical Corporation  
4950 S State Road  
Ann Arbor, MI 48108  
USA

**Customer information:** 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+polymer

**3.2 Information on ingredients:**

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

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  $\geq 0.1\%$ .

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

Get medical attention if irritation or other symptoms occur. 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 flush eyes with plenty of water for at least 15 min. Get medical attention if symptoms occur.

**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	
Boiling point/boiling range .....	not applicable	
Lower explosion limit.....	exempt	
Upper explosion limit.....	exempt	
Ignition temperature .....	Not applicable.	
NFPA Hazard Class (comb./flam.liquid).....	IIIB	

**5.2 Fire and explosion hazards:**

This material will burn with a lazy smoldering flame. 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. Water may be used to cool tanks and structures adjacent to the fire.

**5.4 Unsuitable extinguishing media:**

None.

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

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

**5.6 Fire fighting procedures:**

Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

**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.

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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.

**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 <sup>3</sup>	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

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

none known

**8.3 Personal protection equipment (PPE)****Respiratory protection:**

Respiratory protection is not normally required. A NIOSH approved air purifying respirator equipped with universal multi-contaminant multi-gas/vapor cartridges is recommended if overexposure to chemical vapors could occur.

**Hand protection:**

Any liquid-tight rubber or vinyl gloves.

**Eye protection:**

Safety glasses with side shields or chemical safety goggles.

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**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:**

Avoid contact with eyes, skin and clothing. Follow standard industrial hygiene practices when using this material. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

**9. Physical and chemical properties****9.1 Appearance**

Physical state .....: solid  
Form .....: granular  
Colour .....: off-white  
Odour .....: neutral

**9.2 Safety data**

Property:	Value:	Method:
Melting point.....	not determined	
Boiling point/boiling range .....	not applicable	
Flash point.....	exempt	
Ignition temperature .....	Not applicable.	
Lower explosion limit.....	exempt	
Upper explosion limit.....	exempt	
Vapour pressure.....	exempt	
Density .....	0.98 g/cm <sup>3</sup> at 20 °C (68 °F)	(DIN 53479)
Bulk density.....	exempt	
Water solubility.....	practically insoluble	
pH .....	Not applicable. Insoluble in water.	
Partition coefficient: n-octanol/water .....	not applicable	
Viscosity, dynamic.....	exempt	
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).

Ignition temperature ..... no data available || Minimum ignition energy ..... | exempt |

**10. Stability and reactivity****10.1 General information:**

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

**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.

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Conditions to avoid hazardous polymerization: Not applicable.

**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, Source: Expert judgement
dermal	LD50 > 2000 mg/kg Species: Rat, Source: Expert judgement

**11.1.2 Skin corrosion/irritation****Assessment:**

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

**11.1.3 Serious eye damage/eye irritation****Assessment:**

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

**11.1.4 Respiratory or skin sensitisation****Assessment:**

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

**Product details:**

Exposure routes	Result
Inhalation	No data available.

**11.1.5 Germ cell mutagenicity****Assessment:**

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

**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:**

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:**

In case an aspiration hazard is based on ingredients, this can be seen from the classification and labeling of the whole product.

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**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:**

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

**12.2 Persistence and degradability****Assessment:**

Polymer component: biologically not degradable. Elimination by adsorption to activated sludge.

**12.3 Bioaccumulative potential****Assessment:**

Polymer component: No adverse effects expected.

**12.4 Mobility in soil****Assessment:**

Polymer component: insoluble in water.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 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.

**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.

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**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)**

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.

Japan .....: **ENCS** (Handbook of Existing and New Chemical Substances):  
This product is listed in, or complies with, the substance inventory.

Australia .....: **AIIC** (Australian Inventory of Industrial Chemicals):  
This product is listed in, or complies with, the substance inventory.

China.....: **IECSC** (Inventory of Existing Chemical Substances in China):  
This product is listed in, or complies 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 listed in, or complies 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.

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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](http://www.wacker.com). WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

**16.2 Glossary of Terms:**

ACGIH - American Conference of Governmental Industrial Hygienists	ppm - Parts per Million
DOT - Department of Transportation	SARA - Superfund Amendments and Reauthorization Act
hPa - Hectopascals	STEL - Short Term Exposure Limit
mPa*s - Milli Pascal-Seconds	TSCA - Toxic Substances Control Act
OSHA - Occupational Safety and Health Administration	TWA - Time Weighted Average
PEL - Permissible Exposure Limit	

<b>Flash point determination methods</b> .....	<b>Common name</b>
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

**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)