

Safety Data Sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: June 21, 2024

Version No.: 1.0

Revision: June 21, 2024

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

• **1.1 Product identifier**

• **Trade name:**

Glass bead sand

• **EC No:**

238-878-4

• **CAS No:**

14808-60-7

• **Index No.:**

No data available.

• **REACH Registration No.:**

No data available.

• **Other means of identification:**

No data available.

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

• **Application of the substance/ mixture:**

Industrial uses, borax rust removal, polishing and grinding, road reflection.

• **Uses advised against:**

No data available.

• **Reason why uses advised against:**

No data available.

• **1.3 Details of the supplier of the safety data sheet**

• **Manufacturer/ Supplier:**

Panan Feihang Plastic Factory

A22 Incubation Park, Small-Medium Enterprises, Panan Country, Xincheng District, Zhejiang, China

Tel: +86-579-84666926

Email: 64784802@qq.com

National contact: Chen gang

• **Only Representative/other EU contact point:**

No information available.

• **Further information obtainable from:**

Panan Feihang Plastic Factory

• **1.4 Emergency telephone number**

Tel: +86-15988569715 (24 hours available, for English service only)

SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

• **2.1.1 Classification according to regulation (EC) 1272/2008:**

The product is not classified according to CLP Regulation.

Hazard Class-and-Category	Hazard statement
Not applicable	Not applicable

• **2.2 Label elements**

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The product is not labelled according to CLP Regulation.

• Hazard pictograms:

Not applicable

• Signal word:

Not applicable

• Hazard statements:

Not applicable

• Precautionary statement:

Not applicable

• Supplemental label elements:

Not applicable

• 2.3 Other hazards

Substance does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

Substance was not identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients**• 3.1 Substance**

Substance name	CAS No.	EC No.	Index No.	Weight %	SCL/ M-factor/ ATE
Silicon dioxide	14808-60-7	238-878-4	-	100	-

• 3.2 Mixture

Not applicable

SECTION 4: First aid measures**• 4.1 Description of first aid measures****General advice:**

Get medical attention if you feel unwell.

After inhalation:

Supply with fresh air.

Get medical attention if you feel unwell.

After skin contact:

No special measures required normally.

If there are signs of irritation or other symptoms seek medical attention.

After eye contact:

Rinse eyes with water.

If eye irritation occurs: Get medical advice/attention.

After swallowing:

Wash mouth.

Get medical attention if you feel unwell.

• 4.2 Most important symptoms and effects, both acute and delayed:

No known symptoms or effects, acute or delayed.

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Trade Name: Glass bead sand**· 4.3 Indication of any immediate medical attention and special treatment needed:**

No special immediate medical attention or special treatment needed.

SECTION 5: Fire-fighting measures**· 5.1 Extinguishing media****· Suitable extinguishing agents:**

The product is not flammable.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

· Unsuitable extinguishing media:

No known unsuitable extinguishing media.

· 5.2 Special hazards arising from the substance or mixture:

No special hazards arising from the mixture.

· 5.3 Advice for firefighters**Protective equipment:**

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures**· 6.1 Personal precautions, protective equipment and emergency procedures****· 6.1.1 For non-emergency personnel****Protective equipment:**

Respiration protection.

Emergency procedures:

Avoid breathing dust.

· 6.1.2 For emergency responders**Personal protective equipment:**

Respiration protection.

· 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or confined areas.

If the spillage contaminates rivers, lakes or drains inform respective authorities.

· 6.3 Methods and material for containment and cleaning up:

Use any feasible mechanical means (e.g. vacuum, sweeping) but avoid dusting during clean-up.

Ensure well ventilation.

Dispose contaminated material as waste according to section 13.

· 6.4 Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**

Ensure well ventilation at workplace.

Avoid breathing dust.

- **Information about fire and explosion protection:**

Normal measures for preventive fire protection.

- **7.2 Conditions for safe storage, including any non-compatibility**

- **Requirements to be met by storerooms and receptacles:**

Store in a well-ventilated place.

- **Information about storage in one common storage facility:**

No further requirements.

- **Further information about storage conditions:**

No further requirements.

- **Storage class:**

13.

- **7.3 Specific end use(s):**

See section 1.2.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value – Short term
14808-60-7 Silicon dioxide		
Austria	0.15 mg/m ³ respirable aerosol	-
Belgium	0.1 mg/m ³	-
Denmark	0.3 mg/m ³ inhalable aerosol 0.1 mg/m ³ respirable aerosol	0.6 mg/m ³ inhalable aerosol 0.2 mg/m ³ respirable aerosol
Finland	0.05 mg/m ³ Respirable fraction	-
France	0.1 mg/m ³ respirable aerosol	-
Hungary	0.15 mg/m ³ respirable aerosol	-
Ireland	0.1 mg/m ³ Respirable fraction	-
Spain	0.1 mg/m ³	-
Sweden	0.1 mg/m ³ respirable aerosol	-

- **DNELs:** No available data.

- **PNECs:** No available data.

- **Additional information:**

The lists valid during the marking were used as basis.

- **8.2 Exposure controls**

- **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

- **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice.

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Wash hands and face before breaks and at the end of work.

See section 7 for information about design of technical facilities.

• Personal protective equipment**• Eye and face protection:**

Not required under normal conditions of use.

• Skin protection**• Hand protection:**

Not required under normal conditions of use.

• Other skin protection:

No special protection of body required.

• Respiration protection:

Dust mask is recommended.

• Thermal hazards:

No special protection required.

• Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties**• 9.1 Information on basic physical and chemical properties**

• Physical state	Solid
• Color	Bright and clean, round, transparent glass without impurities
• Odor & Odor threshold	Odorless
• Melting point/freezing point	1610°C
• Boiling point or initial boiling point and boiling range	>2200°C
• Flammability	Not flammable solid
• Lower and upper explosion limit	Not applicable
• Flash point	Not determined
• Auto-ignition temperature	Not determined
• Decomposition temperature	Not determined
• pH	Not determined
• Kinematic viscosity (mm ² /s)	Not determined
• Solubility	Practically insoluble in water
• Partition coefficient n-octanol/water (log value)	Not determined
• Vapor pressure	Not applicable
• Density and/or relative density	2.65 g/cm ³ (20°C)
• Relative vapor density	Not applicable
• Particle characteristics	Not determined

• 9.2 Other information**• 9.2.1 Information with regard to physical hazard classes:**

• Explosives	Not applicable
• Flammable gases	Not applicable

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• Aerosols	Not applicable
• Oxidising gases	Not applicable
• Gases under pressure	Not applicable
• Flammable liquids	Not applicable
• Flammable solids	Not applicable
• Self-reactive substances and mixtures	Not applicable
• Pyrophoric liquids	Not applicable
• Pyrophoric solids	Not applicable
• Self-heating substances and mixtures	Not applicable
• Substances and mixtures, which emit flammable gases in contact with water	Not applicable
• Oxidizing liquids	Not applicable
• Oxidizing solids	Not applicable
• Organic peroxides	Not applicable
• Corrosive to metals	Not applicable
• Desensitised explosives	Not applicable
• 9.2.2 Other safety characteristics	
• Mechanical sensitivity	Not applicable
• Self-accelerating polymerisation temperature	Not applicable
• Formation of explosible dust/air mixtures	Not applicable
• Acid/alkaline reserve	Not applicable
• Evaporation rate	Not applicable
• Miscibility	Not applicable
• Conductivity	Not applicable
• Corrosiveness	Not applicable
• Gas group	Not applicable
• Redox potential	Not applicable
• Radical formation potential	Not applicable
• Photocatalytic properties	Not applicable
• Other physical and chemical parameters	Not determined

SECTION 10: Stability and reactivity

• 10.1 Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

• 10.2 Chemical stability:

Stable under recommended storage conditions.

• 10.3 Possibility of hazardous reactions:

No known hazardous reaction.

• 10.4 Conditions to avoid:

No special avoid condition.

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Strong acid and oxidizing agent.

• 10.6 Hazardous decomposition products:

No known hazardous decomposition products.

SECTION 11: Toxicological information**• 11.1 Information on toxicological effects****• Acute toxicity:**

Based on available data, the classification criteria are not met.

Species	Effective Dose	Results	Method/Source
14808-60-7	Silicon Dioxide		
Rat	LD50-oral	3160 mg/kg	Agricultural Research Service, USDA Information Memorandum., 20(9), 1966.

• Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

• Serious eyes damage/ irritation:

Based on available data, the classification criteria are not met.

• Respiratory or skin sensitization:

Based on available data, the classification criteria are not met.

• Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

• Carcinogenicity:

Based on available data, the classification criteria are not met.

• Reproductive toxicity:

Based on available data, the classification criteria are not met.

• STOT-single exposure:

Based on available data, the classification criteria are not met.

• STOT-repeated exposure:

Based on available data, the classification criteria are not met.

• Aspiration hazard:

Based on available data, the classification criteria are not met.

• 11.2 Information on other hazards**• 11.2.1 Endocrine disrupting properties:**

Substance was not considered to have endocrine-disrupting properties with respect to humans as it meets the criteria set out in section A of Regulation (EU) No 2017/2100.

• 11.2.2 Other information:

No known other relevant information on adverse health effects.

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SECTION 12: Ecological information

- **12.1 Toxicity:** No available data.
- **12.2 Persistence and degradability:** No available data.
- **12.3 Bio-accumulative potential:** No available data.
- **12.4 Mobility in soil:** No available data.
- **12.5 Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

- **12.6 Endocrine disrupting properties:**

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

- **12.7 Other adverse effects:**

No known other adverse effects.

- **12.8 Additional ecological information**

- **General notes:**

WGK1 (German Regulation) (self-assessment): Low hazardous for water.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

- **13.1 Waste treatment methods**

- **Recommendation:**

Small quantity can be disposed together with household garbage.

Large quantities disposed must be in according to the local regulation.

- **13.2 Un-cleaned packaging**

- **Recommendation:**

Dispose of contents/container in according to the local regulation.

SECTION 14: Transport information

• ADR/RID (2023 Edition)	This product is not subject to ADR/RID.
• IATA-DGR (65th)	This product is not subject to IATA-DGR.
• IMO/IMDG (41-22)	This product is not subject to IMO/IMDG code.

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK (German Maximum Workplace Concentration):**

14808-60-7	Silicon dioxide (Silica, crystalline, (respirable fraction))	1
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- **Directive 2012/18/EU**

- **Named dangerous substances-ANNEX I:**

The ingredient is not listed.

- **Seveso category:** Not applicable

- **Qualifying quantity (tonnes) for the application of lower-tier requirements:** Not applicable

- **Qualifying quantity (tonnes) for the application of upper-tier requirements:** Not applicable

- **National regulations.**

- **Water hazard class:**

WGK1 (German Regulation) (self-assessment): Low hazardous for water.

- **Other regulations, limitations and prohibitive regulations**

- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:**

The ingredient is not listed.

- **REACH Regulation Annex XVII Restriction:**

The ingredient is not listed.

- **REACH Regulation Annex XIV Authorization List:**

The ingredient is not listed.

- **15.2 Chemical safety assessment:**

A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

- **16.1 Indication of changes:**

None.

- **16.2 Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

- **16.3 Key literature references and sources for data:**

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

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<https://www.dguv.de/><https://epa.govt.nz/><http://www.ilo.org/><https://www.phmsa.dot.gov/>

• **16.4 Relevant H- and EUH-phrases (number and full text):**

None.

• **16.5 Training advice:**

Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

• **16.6 Further information:**

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

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End of safety data sheet