

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



59800 Glass Beads

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Revised edition: 14.06.2022

Version: 3

Printed: 02.10.2023

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Glass Beads

Article No.: 59800

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

*Functional filler for paints and construction chemicals.
Milling and dispersion balls für dyes, pigments, inks, agrochemicals and minerals
Polishing balls in optics for interocular lenses.
Blasting and coating material for the mechanical surface treatment of metal, plastic and wood*

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

This product does not require classification and labelling as hazardous according to CLP/GHS.

Possible Environmental Effects:

2.2. Label Elements

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

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Hazardous components for labelling:

2.3. Other Hazards

Slipping hazard caused by scattered product

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Spheres of soda lime silicate glass (CAS 65997-17-3, EINECS 266-046-0)

Information on Components / Hazardous Ingredients:

| | | |
|--|--------|---|
| Calcium oxide, CaO (H315-318-335); REACH Reg. No. 01-2120767286-44 | 8.90 % | CAS-Nr: 1305-78-8 EINECS-Nr: 215-138-9 EC-Nr: |
|--|--------|---|

| | | |
|---|---------|---|
| Silicium dioxide, SiO ₂ (amorphous); REACH Reg. No. 01-2119379499-16 | 72.30 % | CAS-Nr: 7631-86-9 EINECS-Nr: 231-545-4 EC-Nr: |
|---|---------|---|

| | | |
|----------------------|--------|---|
| Magnesium oxide, MgO | 4.00 % | CAS-Nr: 1309-48-4 EINECS-Nr: 215-171-9 EC-Nr: |
|----------------------|--------|---|

| | | |
|---|---------|---|
| Sodium oxide, Na ₂ O (H261-314); REACH Reg. No. 01-2120759517-43 | 13.30 % | CAS-Nr: 1313-59-3 EINECS-Nr: 215-208-9 EC-Nr: |
|---|---------|---|

Additional information:

The product is an amorphous inorganic solid, which consists of the mentioned substances. The material is obtained by thermal treatment and is inert, therefore it's properties are not the same as those of its components.

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

*Remove contaminated clothes.
Seek medical attention in case of complaints.*

After inhalation:

*Consult physician if symptoms persist.
Supply fresh air.*

After skin contact:

Wash off with water.

After eye contact:

Carefully remove particles from affected eye. If necessary remove contact lenses. Rinse with plenty of water and contact physician.

After ingestion:

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After swallowing larger amount of product seek medical aid.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Product is not flammable.

5.3. Advice for Firefighters

Protective equipment:

No special measures required.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid formation of dust.

Do not ingest or inhale.

6.2. Environmental Precautions

Environmental precautions:

No special measures required.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Clean up mechanically. Avoid dust formation.

6.4. Reference to other Sections

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Avoid formation and deposition of dust. Provide adequate

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ventilation.
Increased risk of slipping caused by scattered product.

Hygienic measures:

No further measures, see Section 8.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a dry room.

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

No special measures necessary.

Storage class:

13; Non combustible solids (TRGS 510)

Further Information:

No information available.

7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

TLV: 10 mg/m³ inhalable fraction (general dust limit)

TLV: 3 mg/m³ air-borne fraction (general dust limit)

Silicon dioxide, CAS 112926-00-8 (7631-86-9), TWA-Value: 4 mg/m³ (inhalable dust fraction)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

No values available.

Predicted No-Effect Concentration (PNEC):

No values available.

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Ensure adequate ventilation, especially in confined areas.

Personal Protection

General protective measures:

Do not inhale dust. Do not eat, drink or smoke while working.

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Wash hands before breaks and at the end of work.

Respiratory protection:

Dust mask recommended when very dusty with particle filter P2/P3 or half-mask with particle filter FP2/FP3.

Hand protection:

In general not required.

Protective glove material:

Butyl rubber (30 min; > 0.4 mm)

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

No special measures required.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: *solid (sphere)*

Color: *transparent*

Odor: *odorless*

Odor threshold:
no information available

pH-Value:
not applicable

Melting temperature: *1446°C*

Boiling temperature:
not applicable

Flash point:
not applicable

Evaporation rate:
not applicable

Flammability (solid, gas):
not available

Upper explosion limit:
no information available

Lower explosion limit:
no information available

Vapor pressure:
not applicable

Vapor density:
No information available.

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| | |
|---|--------------------------------|
| Density: | 2.50 kg/dm ³ |
| Solubility in water: | insoluble |
| Coefficient of variation (n-Octanol/Water): | no information available |
| Auto-ignition temperature: | No information available. |
| Decomposition temperature: | not determined |
| Viscosity, dynamic: | not determined |
| Explosive properties: | not explosive |
| Oxidizing properties: | no information available |
| Bulk density: | 1.46 - 1.53 kg/dm ³ |

9.2. Further Information

| | |
|-------------------------|---|
| Solubility in solvents: | |
| Viscosity, kinematic: | |
| Burning class: | |
| Solvent content: | |
| Solid content: | |
| Particle size: | |
| Other information: | Transformation temperature: ca. 549°C Softening temperature: 734°C |

10. Stability and Reactivity

| | |
|--|---|
| 10.1. Reactivity | Stable if used according to specifications. |
| 10.2. Chemical Stability | Hydrolytic class 2, glass bubbles (DIN ISO 720) Acid resistance to glass bubbles: S2 (DIN 12116) Alkali resistance to glass bubbles: A1 (DIN ISO 695) |
| 10.3. Possibility of Hazardous Reactions | No information available. |
| 10.4. Conditions to Avoid | Conditions to avoid: Avoid temperatures above 450°C. Thermal decomposition: No data available. |

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10.5. Incompatible Materials

Strong alkalis (e.g. NaOH, HF)

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

No information available.

Acute Toxicity

LD50, oral:

LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

Dust may cause irritation.

Irritant effect on eyes:

Particles may cause mechanical irritation.

Inhalation:

Dust can cause irritation of the respiratory system.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No reproductive toxicity expected.

Carcinogenicity:

No cancerogenic effect known.

Teratogenicity:

No teratogenic effects expected.

Specific target organ toxicity (STOT):

No relevant data found.

Aspiration hazard:

11.2. Information on other Hazards

12. Ecological Information

12.1. Aquatic Toxicity

No toxicity expected.

Fish toxicity:

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Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

Pigment is not soluble in water.

Inorganic substance. Biological degradability is not affected.

12.3. Bioaccumulation

No bioaccumulation.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

12.6. Endocrine Disrupting Properties

12.7. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

No special effects or hazards known.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

If possible reuse product.

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

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ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

None

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14. 8. Further Information

Not classified as a dangerous good under transport regulations.

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

0, not hazardous (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Does not underlie the Accident Ordinance.

Employment restrictions:

Restriction and prohibition of application:

Glass beads are not toys and therefore must be kept out of reach of children.

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment is not necessary for this product.

15. 3. Further Information

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16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.