

Glass Beads and Glass Grain blend

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name Glass Beads and Glass Grain blend
Chemical Name Glass, oxide, chemicals
CAS No. 65997-17-3
EC No. 266-046-0
REACH Registration No. None assigned.

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

Identified Use(s) Used in various industrial applications, including road safety markings.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier

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**Glass Beads and Glass Grain blend****1.4 Emergency telephone number**

Emergency Phone No. Company/ ChemTrec
Contact +44 20 3807 3798 (U.K.) / +1 703 527 3887 (U.S.A.)

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Glass Beads and Glass Grain blend
Hazard Pictogram(s) None.
Signal Word(s) None.
Hazard Statement(s) None.
Precautionary Statement(s) None.

2.3 Other hazards

Dust may have irritant effect on skin, eyes and air passages.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Ingredients	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Glass, oxide, chemicals	65997-17-3	266-046-0	>99	Not classified	None

Contains no non-classified vPvB substances or substances with a Union workplace exposure limit.

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact Wash skin with water.
Eye Contact Flush eyes with water for at least 15 minutes.
Ingestion Do not induce vomiting. Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Dust may cause irritation. Dust may cause discomfort and mild irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.
 Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

Non-combustible. Excessive heating (>500°C) may cause melting or fusion of the substance.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Wear eye/face protection.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Caution - spillages may be slippery. Sweep spilled substances into containers if appropriate moisten first to prevent dusting. Use vacuum equipment for collecting spilt materials, where practicable.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Caution - spillages may be slippery. General hygiene measures for the handling of chemicals are applicable. Avoid generation of dust. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and dry.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

Acids.

7.3 Specific end use(s)

Used in various industrial applications, including road safety markings.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Dusts non-specific - total inhalable			10			
Dusts non-specific - respirable			4			

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Region Source
 United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

8.2 Exposure controls

8.2.1. Appropriate engineering controls Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

8.2.2. Personal protection equipment



Eye Protection Handling of larger amounts : Wear eye protection with side protection (EN166).



Skin protection Wear suitable gloves if prolonged skin contact is likely.
 Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection Wear suitable respiratory protective equipment if exposure to high levels of material are likely.



Thermal hazards Not applicable.

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Blend of glass beads and grains.
Colour	Translucent.
Odour	Odourless.
Melting point/freezing point	730°C
Boiling point or initial boiling point and boiling range	Not known.
Flammability	Non-flammable.
Lower and upper explosion limit	Not applicable.
Flash Point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	Not applicable.
Solubility	Solubility (Water) : Insoluble. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Density and/or relative density	Not known.

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Relative vapour density Not applicable.
Particle characteristics Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity - Ingestion Low oral toxicity.
By analogy with similar materials:
LD50 (oral,rat) mg/kg: 5000

Acute toxicity - Skin Contact Low acute toxicity.

Acute toxicity - Inhalation Low acute toxicity. Dust: Irritant effect on air passages.

Skin corrosion/irritation Dust may cause irritation.

Serious eye damage/irritation Dust may cause irritation.

Skin sensitization data It is not a skin sensitiser.

Respiratory sensitization data Not classified.

Germ cell mutagenicity There is no evidence of mutagenic potential.

Carcinogenicity No evidence of carcinogenicity.

Reproductive toxicity No evidence of reproductive effects.

Lactation Not classified.

STOT - single exposure None anticipated.

STOT - repeated exposure None anticipated.

Aspiration hazard Not classified.

11.2 Information on other hazards

Not known.

**Glass Beads and Glass Grain blend****SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Insoluble in water. The substance is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product as supplied: The waste is considered to be non hazardous.
Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

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14.6 Special precautions for user

Not known

14.7 Maritime transport in bulk according to IMO instruments

Not known

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

High Concern for Authorisation

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not listed

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

National regulations

Wassergefährdungsklasse (Germany) WGK number 1 (slightly hazardous to water)

15.2 Chemical Safety Assessment

Not applicable.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

LEGEND

Acronyms

CAS : Chemical Abstracts Service

CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

EC : European Community

LTEL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative



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Key literature references and sources for Regulation (EC) No. 1272/2008 (CLP) data used to compile the SDS

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