



MICROBEADS AG
Wambisterstrasse 1a, CH-5412 Gebenstorf / Switzerland
info@microbeads-ag.ch, www.microbeads-ag.ch

Trade name : Ceramic beads Zirblast/Zirshot

Safety Data Sheet in compliance with n° 1907/2006/CE

Issue date: January 2020

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1. Identification of the product and of the company/undertaking

Trade name: Ceramic beads Zirblast / Zirshot

Description: Electro fused ceramic beads

Use: Blasting media

Company/undertaking identification: MICROBEADS AG
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Substance registration no.: Under Reach Regulation (EC) No. 1907/2006, the Zirblast is considered as article so it is exempted from registration.

2. Hazards identification

Directives 67/548/CEE 1999/45/CE and CLP(EC)1272/2008 None of the components are classified as hazardous.

OTHER HAZARDS

Adverse effects on health Possible irritation through abrasive friction.
The product does not pose any inhalation problems, but its use may create dust.

Environmental effects Does not present any particular risk for the environment
Physical and chemical hazards Fire or explosion: does not present any particular hazard

3. Composition / information on ingredients

N°CAS	N°EINECS	Components	Weight %
1314-23-4	215-227-2	Zirconium Dioxide (ZrO ₂)	60 to 70 %
65997-17-3	266-046-0	Silica glass (SiO ₂)	28 to 33 %
1344-28-1	215-691-6	Alumina (Al ₂ O ₃)	< 10 %

Additional information: Silica glass free from crystalline silica
Traces of radioactive elements of natural origin (U+Th < 0,05 %)



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4. First aid measures

Eye contact	Treat in the same way as a piece of grit in the eye, rinse thoroughly, pulling the eyelids well away from the eye. If irritation persists, consult an eye specialist.
Ingestion	N/A
Skin contact	N/A
Inhalation	N/A

5. Fire fighting measures

Suitable extinguishing media:	All extinguishing agents can be used.
Specific hazards:	This product is not combustible or explosive. Does not present any particular risk in the event of fire.
Specific fire fighting methods:	Does not require any particular methods.
Protection of fire-fighters:	Use appropriate protective equipment.

6. Accidental release measures

Personal precautions:	Avoid contact with the eyes.
Environmental precautions:	Do not discharge into drains and rivers.
Methods for cleaning up: - Recovery	Sweep up or vacuum up the product
Other information:	Risk of slipping on rolling beads.

7. Handling and storage

Handling: Technical measures Precautions to be taken	Ensure areas are well ventilated. For operations generating dust: Wear FFP2 or FFP3 dust mask Wear safety goggles.
Storage: Technical measures	Does not require any specific or particular technical measures.
Recommended storage conditions	Dense material: Observe safety rules when stacking.



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8. Exposure control / personal protection

Engineering measures: Ensure areas are well ventilated.

Control parameters: Under normal conditions of use, the working up of the product does not yield exposure above 1mSv/year (public limits in accordance with Euratom 96/29 directives).

Occupational exposure limit values and/or biological limit values:

Components	N° CAS	N° EINECS	Limit values	Remarques
Zirconium compounds	7440-67-7	231-176-9	5 mg/m ³ in Zr	ACGIH, OSHA for 8 hours (TWA)
			10 mg/m ³ in Zr	ACGIH, OSHA for 15 minutes (STEL)
Silica glass	65997-17-3	266-046-0	5 mg/m ³	ACGIH, OSHA for 8 hours (TWA)
Dust with not specific effect			10 mg/m ³ (inhalable) 3 mg/m ³ (alveolar)	ACGIH (TLV)
			10 mg/m ³ (inhalable) 5 mg/m ³ (alveolar)	INRS (VLEP France), OSHA (PEL)

Personal protective equipment

Respiratory protection: In the event of insufficient ventilation, wear a respiratory protective device with a particulate filter.

Hand protection: Wear safety gloves.

Eye protection: Wear safety goggles.

Skin and body protection: Safety shoes.

Hygiene measures: Do not drink, eat or smoke during use.

9. Physical and chemical properties

Physical State: Beads

Colour: White

Odour: Odourless

Median diameter < 1,2 mm

Specific temperatures: Melting point: between 1850 °C und 2550 °C

Flammability characteristics: Flash point: not applicable

Bulk density: 2,3 kg/dm³

Mass density: 3,8 kg/dm³

Solubility: Insoluble

10. Stability and reactivity

Stability: Stable under normal conditions of use and below 1300 °C

Materials to avoid: Reacts with strong acids and bases.



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11. Toxicological information

Toxicity: No specific data available.
To our knowledge, this product does not present any particular risk subject to compliance with the general rules of industrial hygiene.

Local effects: The dust can cause mechanical irritation of the eyes and the respiratory tract..

12. Ecological information

Ecotoxicity: No data available.
Effects on aquatic organisms: No data available.

13. Disposal considerations

Waste from product:
Destruction/disposal Dispose of in accordance with relevant local regulations.

Contaminated packaging:
Destruction/disposal Dispose of at an authorised site.

14. Transport information

International regulations
RID-ADR-IMDG-IATA Not restricted.

15. Regulatory information

Directives 67/548/CEE and 1999/45/CE		CLP regulation EC 1272/2008	
Symbols and indications of danger	No symbol	Symbols and indications of danger	No symbol
R-phrases	No R-phrase	H-phrases	No H-phrase
S-phrases	No S-phrase	P-phrases	No P-phrase

16. Other information

Restrictions of use: This product must not be used for applications other than those indicated in § 1.

Replace sheet: 18/04/2011

This sheet completes the technical sheets but it does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.

The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The mandatory regulations mentioned are only intended to help the user to fulfil his obligations regarding the use of hazardous products.

This listing must not be considered exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.