

Revision date:
01/06/2015*In compliance with n°1907/2006/CE and US GHS*

Version : 13

ZIRBLAST®**Section 1. Identification of the product and of the company/undertaking**1.1. Product identifier

Commercial name Zirblast®
Description Electrofused ceramic beads
REACH registration numbers Exempted from registration under REACH regulation EC N°1907/2006

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

Identified uses Media for surface treatment by impact.

1.3. Details of the supplier of the safety data sheet

Company/undertaking identification Société Européenne des Produits Réfractaires S.E.P.R
Address BP 30040 – 84131 LE PONTET Cedex France
Tel. + 33 4 90 32 70 00
Fax + 33 4 90 32 71 65
E-mail zirpro@saint-gobain.com

1.4. Emergency telephone number

Emergency tel. + 33 4 90 32 70 78
+ 33 1 45 42 59 59 (ORFILA number for emergency)

Section 2. Hazards identification2.1. Classification of the substance or mixture

Directives 67/548/EEC and 1999/45/CE Ceramic beads are not classified as a hazardous product
CLP regulation EC 1272/2008 Ceramic beads are not classified as a hazardous product
OSHA GHS (US) Ceramic beads are not classified as a hazardous product

2.2. Label elements

Not required under Directives 67/548/EEC, Regulation EC 1272/2008 and OSHA GHS (US).

2.3. Other Hazard

Adverse effects on health Possible irritation through abrasive friction.
Moreover, surface treatments by impact might generate dust.

NFPA Hazard Rating: Reactivity: 0
Flammability: 0
Health: 0

WHMIS Not hazardous

Section 3. Composition/information on ingredients

N°CAS	N°EINECS	Components	Weight %
1314-23-4	215-227-2	Zirconium Dioxide (ZrO ₂)	60 to 70 %
60676-86-0	262-373-8	Silica glass (SiO ₂)	28 to 33 %
1344-28-1	215-691-6	Alumina (Al ₂ O ₃)	<10 %

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ZIRBLAST®Additional information

- The ingredients of the silica-alumina vitreous phase cannot be dissociated by the product application in surface treatment by impact and it is free from crystalline silica.
- Traces of radioactive elements of natural origin (Series U238 and Th232, U+Th < 0.05%)
- Traces of fibrous particles (in the range of ppm) with same chemical composition as the beads (from production processing).

Section 4. First aid measures4.1. Description of first aid measures

<u>Eye contact</u>	Rinse thoroughly. If irritation persists, consult an ophthalmologist.
<u>Ingestion</u>	N/A
<u>Skin contact</u>	N/A
<u>Inhalation</u>	N/A

4.2. Most important symptoms and effects, both acute and delayed No data available

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

Section 5. Fire fighting measures

5.1. Extinguishing media
Suitable extinguishing media All extinguishing agents can be used.

5.2. Special hazards arising from the substance or mixture This product is not combustible or explosive.
Does not present any particular risk in the event of fire.

5.3. Advice for firefighters
Specific fire fighting methods Does not require any particular methods

Protection of fire-fighters Use appropriate protective equipment.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Avoid contact with the eyes.

6.2. Environmental precautions Do not discharge into drains and rivers.

6.3. Methods and material for containment and cleaning up Vacuum up the product.
Risk of slipping when present on the ground.

6.4. Reference to other sections See section 8 for personal protective equipment.
See section 13 for disposal considerations.

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ZIRBLAST®**Section 7. Handling and storage**7.1. Precautions for safe handling

Technical measures	Ensure that areas are well ventilated.
Precautions to be taken	For operations generating dust: Wear P3 dust mask (or N95 for US). Wear safety goggles.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	Does not require any specific or particular technical measures.
Recommended storage conditions	Dense material: Observe safety rules when stacking.

7.3. Specific end use(s)

See section 1.1

Section 8. Exposure control / personal protection8.1. Control parameters

<u>Engineering measures</u>	Use in an enclosed cabinet or containment with an equipment able to capture the dust.
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Control parameters

No applicable specific control parameters.

Occupational exposure limit values and/or biological limit values

No official limit values.

8.2. Exposure controlsPersonal protective equipment

Respiratory protection	Wear a P3 dust mask (or N95 for US) during any operation which might generate dust.
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.

Section 9. Physical and chemical properties9.1. Information on basic physical and chemical properties

<u>Physical State</u>	Beads
<u>Color</u>	White
<u>Odor</u>	Odorless
<u>Median diameter</u>	< 1.2 mm
<u>Specific temperatures</u>	Melting point: between 1850°C and 2550°C
<u>Flammability characteristics</u>	Flash point: not applicable
<u>Bulk density</u>	2.3 kg/dm ³
<u>Mass density</u>	3.8 kg/dm ³
<u>Solubility</u>	Insoluble

9.2. Other information

None

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ZIRBLAST®**Section 10. Stability and reactivity**

<u>10.1. Reactivity.</u>	No reactivity under normal conditions of use.
<u>10.2. Chemical stability.</u>	Stable under normal conditions of use and below 1300°C
<u>10.3. Possibility of hazardous reactions.</u>	No data available
<u>10.4. Conditions to avoid.</u>	No dangerous reactions known under normal conditions of use.
<u>10.5. Incompatible materials</u>	
<u>Materials to avoid</u>	Reacts with strong acids and bases.
<u>10.6. Hazardous decomposition products.</u>	No data available

Section 11. Toxicological information11.1. Information on toxicological effects

<u>Toxicity</u>	No specific data available.
<u>Local effects</u>	The dust can cause mechanical irritation of the eyes and the respiratory tract.

Section 12. Ecological information

<u>12.1. Toxicity</u>	
<u>Ecotoxicity</u>	No data available.
<u>Effects on aquatic organisms</u>	No data available.
<u>12.2. Persistence and degradability</u>	No data available
<u>12.3. Bioaccumulative potential</u>	No data available
<u>12.4. Mobility in soil</u>	No data available
<u>12.5. Results of PBT and vPvB assessment</u>	Not relevant because the substance is not classified.
<u>12.6. Other adverse effects</u>	No data available

Section 13. Disposal considerations13.1. Waste treatment methodsWaste from product
Destruction/disposal

The waste materials from surface treatment process must undergo a physico-chemical analysis in order to define their mode of disposal.

Possibility to collect the used ceramic beads for recycling upon request (product stewardship).

Contaminated packaging

Destruction/disposal

Dispose off at an authorised site.

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ZIRBLAST®**Section 14. Transport information**International regulations

RID/ADR/IMDG/IATA

Not restricted.

Section 15. Regulatory information15.1. Safety, health and environmental regulations/legislation specific for the substance or mixtureDirectives 67/548/CEE, 1999/45/CEand regulation CLP (EC) 1272/2008:

The ceramic beads are not classified as a dangerous product
All ingredients are listed on TSCA (Toxic Substance Control Act).
None of the constituent substances are listed in Proposition 65 (California).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

Section 16. Other informationRestrictions of use

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

Voluntary labelling

Pictogram displayed on all the packaging.

Replaces sheet

30/08/2013

Information concerning the amendments:

- addition of subtitles in each section of the SDS
- addition of dust mask N95 for US standard
- mention of US GHS in sections 2 and 15
- modification of CAS number and EC number of silica glass in order to better fit to the definition of the product

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

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 exempt the user from knowing and applying all the regulations governing his use of the product.

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.