

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

<b>Commercial name</b>	Zirshot®
Description	Electrofused ceramic beads
Use	Media for surface treatment by impact.
<b>Company/undertaking identification</b>	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
<b>Emergency tel.</b>	+ 33 4 90 32 70 78 + 33 1 45 42 59 59 (ORFILA number for emergency)
<b>Substance registration numbers</b>	Exempted from registration under european regulation REACH (EC) No 1907/2006.

**2. Hazards identification**

Directives 67/548/CEE Ceramic beads are not classified as a hazardous product.  
1999/45/CE and CLP (EC) 1272/2008

**OTHER HAZARDS**

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

**3. Composition/information on ingredients**

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

Additional information Silica glass free from crystalline silica  
Traces of radioactive elements of natural origin  
(Series U238 and Th232, U+Th < 0.05%)

**4. First aid measures**

Eye contact Rinse thoroughly. If irritation persists, consult an ophthalmologist.

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## 5. Fire fighting measures

<u>Suitable extinguishing media</u>	All extinguishing agents can be used.
<u>Specific hazards</u>	This product is not combustible or explosive.

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## 6. Accidental release measures

<u>Personal precautions</u>	Avoid contact with the eyes and the inhalation of dust.
<u>Environmental precautions</u>	Do not discharge into drains and rivers.
<u>Methods for cleaning up</u> - Recovery	Vacuum up the product.
<u>Other information</u>	Risk of slipping when present on the ground.

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## 7. Handling and storage

<u>Handling</u>	
Technical measures Precautions to be taken	Ensure areas are well ventilated. For operations generating dust: Wear FFP3 dust mask. Wear safety goggles.
<u>Storage</u>	
Technical measures	Ensure a good ventilation of the warehouse.
Recommended storage conditions	Dense material: Observe safety rules when stacking.

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## 8. Exposure control / personal protection

<u>Engineering measures</u>	Use in an enclosed cabinet or containment with an equipment able to capture the dust.
<u>Control parameters</u>	No applicable specific control parameters.
<u>Occupational exposure limit values and/or biological limit values</u>	No official limit values.
<u>Personal protective equipment</u>	
Respiratory protection	Wear a mask FFP3 during any operation which might generate dust.
Hand protection	Wear safety gloves.
Eye protection	Wear safety goggles.
Skin and body protection	Safety shoes.
<u>Hygiene measures</u>	Do not drink, eat or smoke during use.

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## 9. 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 <sup>3</sup>
<u>Mass density</u>	3.8 kg/dm <sup>3</sup>
<u>Solubility</u>	Insoluble

## 10. Stability and reactivity

<u>Stability</u>	Stable under normal conditions of use and below 1300°C.
<u>Materials to avoid</u>	Reacts with strong acids and bases.

## 11. Toxicological information

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

## 12. Ecological information

<u>Ecotoxicity</u>	No data available.
<u>Effects on aquatic organisms</u>	No data available.

## 13. Disposal considerations

<u>Waste from product</u> 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).
<u>Contaminated packaging</u> 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, 1999/45/CE  
and regulation CLP (EC) 1272/2008:

The ceramic beads are not classified as a dangerous product

## 16. Other information

Restrictions 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

20/06/2011.

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.