

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 identification****2.1. 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 <sub>2</sub> )	60 to 70 %
60676-86-0	262-373-8	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 %

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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 measures**4.1. 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.

## 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 protection

### 8.1. Control parameters

Engineering measures

Use in an enclosed cabinet or containment with an equipment able to capture the dust.

Control parameters

No applicable specific control parameters.

Occupational exposure limit values  
and/or biological limit values

No official limit values.

### 8.2. Exposure controls

#### Personal 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 properties

### 9.1. Information on basic physical and chemical properties

Physical State

Beads

Color

White

Odor

Odorless

Median diameter

&lt; 1.2 mm

Specific temperatures

Melting point: between 1850°C and 2550°C

Flammability characteristics

Flash point: not applicable

Bulk density2.3 kg/dm<sup>3</sup>Mass density3.8 kg/dm<sup>3</sup>Solubility

Insoluble

### 9.2. Other information

None

**Section 10. Stability and reactivity**10.1. Reactivity.

No reactivity under normal conditions of use.

10.2. Chemical stability.

Stable under normal conditions of use and below 1300°C

10.3. Possibility of hazardous reactions.

No data available

10.4. Conditions to avoid.

No dangerous reactions known under normal conditions of use.

10.5. Incompatible materialsMaterials to avoid

Reacts with strong acids and bases.

10.6. Hazardous decomposition products.

No data available

**Section 11. Toxicological information**11.1. Information on toxicological effectsToxicity

No specific data available.

Local effects

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

**Section 12. Ecological information**12.1. ToxicityEcotoxicity

No data available.

Effects on aquatic organisms

No data available.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Not relevant because the substance is not classified.

12.6. Other adverse effects

No data available

**Section 13. Disposal considerations**13.1. Waste treatment methodsWaste from productDestruction/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 packagingDestruction/disposal

Dispose off at an authorised site.

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## Section 14. Transport information

### International regulations

RID/ADR/IMDG/IATA

Not restricted.

## Section 15. Regulatory information

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

#### Directives 67/548/CEE, 1999/45/CE

#### and 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 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

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.