

Safety Data Sheet

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In compliance with n 907/2006/CE and US GHS

Revision date: Version : 12

01/06/2015 **ZIRSHOT**®

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

1.1. Product identifier

Commercial name Zirshot®

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 Société Européenne des Produits Réfractaires S.E.P.R

identification

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 Ceramic beads are not classified as a hazardous product.

and 1999/45/CE

CLP regulation EC 1272/2008 Ceramic beads are not classified as a hazardous product CSHA 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℃AS	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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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%)

Section 4. First aid measures

4.1. Description of first aid measures

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

IngestionN/ASkin contactN/AInhalationN/A

4.2. Most important symptoms

and effects, both acute and delayed No data available

4.3. Indication of any immediate medical attention

<u>and special treatment needed</u> 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
This product is not combustible or explosive.

<u>from the substance or mixture</u> Does not present any particular risk in the event of fire.

5.3. Advice for firefighters

<u>Specific fire fighting methods</u>

Does not require any particular methods

<u>Protection of fire-fighters</u> Use appropriate protective equipment.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with the eyes and the inhalation of dust.

<u>6.2. Environmental precautions</u> Do not discharge into drains and rivers.

<u>6.3. Methods and material</u> Vacuum up the product.

for containment and cleaning up 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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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.

<u>Control parameters</u> 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.

<u>Hygiene measures</u> Do not drink, eat or smoke during use.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical StateBeadsColorWhiteOdorOdorlessMedian diameter< 1.2 mm</td>

Specific temperatures Melting point: between 1850℃ and 2550℃

<u>Flammability characteristics</u> Flash point: not applicable

Bulk density2.3 kg/dm³Mass density3.8 kg/dm³SolubilityInsoluble

9.2. Other information None





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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 materials

<u>Materials to avoid</u> Reacts with strong acids and bases.

10.6. Hazardous decomposition products. No data available

Section 11. Toxicological information

11.1. 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

12.1. Toxicity

<u>Ecotoxicity</u> 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.

12.6. Other adverse effects No data available

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste 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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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 The ceramic beads are not classified as a dangerous product.

and regulation CLP (EC) 1272/2008: All constituent substances are listed on TSCA (Toxic Substance Control Act).

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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.

Pictogram displayed on all the packaging. Voluntary labelling



30/08/2013 Replaces sheet

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.

