

Section 1: Identification**1.1 Product identifier**

Product Name: Ceramic Shot
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

Media for surface treatment, surface preparation and/or cleaning by impact.

1.3 Details of the supplier of the product information

Supplier: Guyson Corporation of U.S.A.
13 Grande Blvd.
Saratoga Springs, NY 12866
www.guyson.com
info@guyson.com

1.4 Telephone number: 518-587-7894

Section 2: Hazard Identification**2.1 Classification of the substance or mixture**

CLP regulation EC 1272/2008: Ceramic beads are not classified as hazardous product
OSHA GHS (US): Ceramic beads are not classified as hazardous product

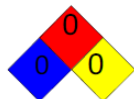
2.2 Label elements:

Not required under CLP regulation EC 1272/2008 and OSHA GHS (US)

2.3 Other hazards:

Adverse effects on health: Possible irritation through abrasive friction. Surface treatments by impact might generate dust

NFPA Hazard Rating:



Health = 0
Fire = 0
Reactivity = 0

WHMIS:

Not hazardous

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 3: Composition / Information on Ingredients**3.1 Substance**

N ^o CAS	N ^o 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%

Section 4: First-Aid Measures**4.1 Description of first aid measures**

- **After inhalation:** N/A
- **After skin contact:** N/A
- **After eye contact:** Rinse thoroughly. If irritation persists, consult an ophthalmologist
- **After swallowing:** 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**

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 fire-fighters

Does not require any particular methods
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.

6.2 Environmental precautions

Do not discharge into drains and rivers

6.3 Methods and materials 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 information on personal protection equipment.
See Section 13 for disposal considerations

Section 7: Handling and Storage**7.1 Precautions for safe handling**

Ensure that areas are well ventilated.
For operations generating dust: Wear P3 dust mask
Wear safety glasses

7.2 Conditions for safe storage, including any incompatibilities

This does not require any specific or particular technical measures.
Dense Material: Observe safety rules when stacking

7.3 Specific end use

See Section 1.2

Section 8: Exposure Controls / Personal Protection**8.1 Control parameters:**

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

8.2 Exposure Controls**Personal protective equipment:**

- **Respiratory Protection:** Wear a P3 (or N95 for US) dust mask during any operation which might generate dust.
- **Hand Protection:** Wear safety gloves
- **Eye protection:** Wear safety goggles
- **Skin and body protection:** Safety shoes

Hygienic 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 Form:	Beads
Color:	White
Odor:	Odorless
Median diameter:	<1.2 mm
Specific temperatures:	Melting point: between 1850°C and 2550°C
Flash point:	Not applicable
Bulk Density:	2.3 kg / dm ³
Mass Density:	3.8 kg / dm ³
Solubility:	Insoluble

9.2 Other data

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

Reacts with strong acids and bases

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No data available

Section 11: Toxicological Information**11.1 Information on toxicological effects**

Toxicity – 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 Toxicity**

No data available.

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

12.4 Mobility in soil

No data available.

12.5 Results of PTB and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

Section 13: Disposal Considerations**13.1 Waste Treatment Methods:**

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: To be disposed of at an authorized site

Section 14: Transport Information**International Regulations**

- RID / ADR /IMDG / IATA
Not Regulated

Section 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
CLP regulation EC 1272/2008**

The ceramic beads are not classified as a dangerous product.
All constituent substances 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 Section 1.

The indications made in this product information are based on the present state of our know-how and experience. The product information describes the unused product in view of safety requirements. The indications do not constitute any guarantee with regard to product and do not create a contractual legal relationship.

All information given above refer to the unused product. As a result of mechanical application changes in the chemical and physical properties could not be excluded. The chemical and physical properties of the waste, strongly depend on the conditions of use. All indications made in this product information concerning composition, dangers, first aid, fire-fighting measures, accidental release measures, handling and storage, exposure control and personal protection, physical and chemical properties, stability and reactivity, toxicological information, ecological information, disposal information, transport information and regulatory information are only valid for the unused product and not for abrasive waste.

It is the responsibility of the user to find out all the necessary information.