



ZHENGZHOU HAIXU ABRASIVES CO.,LTD
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Safety Data Sheet

SECTION 1 – IDENTIFICATION

1.1 Product Identifiers

Product Name: Ceramic Beads

Product Types/Codes: CB 505/400/205/170/120/125/60/40/30/20

REACH registration numbers: Exempted from registration under REACH regulation EC No. 1907/2006

1.2 Relevant identified uses of the substance or mixture and uses advised against Media for surface treatment by impact

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

1.4 Emergency telephone number:

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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 Regulation CLP 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: No hazardous

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Components: Zirconium Dioxide ZrO₂, CAS No.: 1314-23-4, EC No.:215-227-2, Weight: 60 - 70 %
Silica glass SiO₂, CAS No.: 60676-86-0, EC No.: 262-373-8, Weight: 28 - 33 %
Aluminum Oxide Al₂O₃, CAS No.: 1344-28-1, EC No.: 215-691-6, Weight: < 10 %



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Additional informational:

- 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 & 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

After eye contact: Rinse thoroughly. If irritation persists, consult a doctor

After inhalation: N/A

After skin contact: N/A

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 – FIREFIGHTING 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: Does not require any particular methods Protective equipment: 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 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 information.



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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: No special requirements or particular technical measures.

Recommended storage conditions dense material: Observe safety rules when stacking. 7.3 Specific

end use(s): See section 1.2

SECTION 8 – EXPOSURE CONTROLS/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.

Protection of hands: 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

Appearance

Form: Beads

Color: White Smell: Odorless

Median diameter: < 1.0 mm

Specific temperatures: over 1600 °C

Flammability (solid, gaseous): Not applicable.



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Bulk Density: 2.3 g/cm³

Mess Density: 3.85 g/cm³

Solubility in Water: Insoluble

9.2 Other information: No further relevant information available.

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 know under normal conditions of use.

10.5 Incompatible materials: No data 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

Ecotoxicity: No data available

Effects on aquatic organisms: 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 PBT and vPvB assessment: No relevant because the substance is not classified. 12.6 Other adverse effects: No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods



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Waste from product

Destruction / disposal: The waste materials from surface treatment process must undergo a physical-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: To be disposed of at an authorized site.

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 CLP regulation 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 Section 1.

Voluntary labelling: Pictogram displayed on all the packaging.



Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Materials Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Abbreviations and acronyms:

ADR: Accord European sur le transport des marchandises dangerousness par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals



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EC: EINECS European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

ACGIH: American Conference of Governmental Industrial Hygienists (USA)

OSHA: Occupational Safety and Health Administration (USA)

NTP: National Toxicology Program (USA)

IARC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA)

IATA: International Air Transportation Association