

Material Safety Data Sheet(MSDS)

2024-01-01

1 PRODUCT AND SUPPLIER IDENTIFICATION

Product Name: Ceramic Part

Application: Grinding

Formula: ZrO2

Supplier: Fengye New Material Co.,Limited

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2 HAZARDS IDENTIFICATION

Signal Word: N/A

Hazard Statements: N/A

Precautionary Statements: N/A

3 COMPOSITION/INFORMATION ON INGREDIENTS

Zirconium Oxide(ZrO2)	94.5%	CAS 1314-23-4
Yttrium Oxide (Y2O3)	5.25%	CAS 1314-36-9
Other	0.25%	



4 FIRST AID MEASURES

General Measures: Under normal handling and use, exposure to solid forms of this material present few health hazards. Subsequent operations such as grinding, melting or welding may produce potentially hazardous dust or fumes which can be inhaled or come in contact with the skin or eyes.

INHALATION: Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek medical attention.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing, brush material off skin, wash affected area with soap and water. Seek medical attention if symptoms develop or persist.

EYES: Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms develop or persist.

5 FIREFIGHTING MEASURES

Suitable extinguishing substances Product itself does not burn.

Extinguishing Substances which are not Suitable due to safety reasons. None Known

Special dangers from the substance or the preparation itself, its combustion products or gases which arise : None Known

special protective equipment in fighting fire: None Known

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate respiratory and protective equipment specified in section 8. Avoid dust formation. Keep finely divided zirconium away from any source of ignition and cleaned up immediately.

Methods and Materials for Containment and Cleaning Up: Sweep or scoop up. Place in properly labeled container for further handling and disposal.

Environmental Precautions: Do not allow to be released to the environment.



7 HANDLING AND STORAGE

Precautions for Safe Handling: No special fire protection measures necessary.

Conditions for Safe Storage: non-flammable solid materials

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: When using the product, be sure without fail to wear fresh-air helmet with respiratory protection

Eye Protection: Safety glasses

Skin Protection: Wear impermeable gloves, protective work clothing as necessary.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: CERAMIC PART(ZIRCONIA MORTAR)

Color: WHITE COLOR

Odor: Odorless

Odor Threshold : Not determined

pH: N/A

Melting Point: 1852±2 °C

Boiling Point: 4377 °C

Flash Point: N/A

Evaporation Rate: N/A

Flammability: No data

Upper Flammable Limit: No data



Lower Flammable Limit: No data

Vapor Pressure: No data

Vapor Density: N/A

Relative Density (Specific Gravity): 3.60 g/cm³

Solubility in H₂O: Insoluble

Partition Coefficient (n-octanol/water): Not determined

Autoignition Temperature: No data

Decomposition Temperature: No data

Viscosity: N/A

10 STABILITY AND REACTIVITY

Reactivity: No data

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Avoid creating or accumulating fines or dusts. Avoid all sources of ignition.

Incompatible Materials: Acids, oxidizing agents, fluorine, chlorine, bromine, iodine, halocarbons, carbon tetrachloride,

11 TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin, eyes. Product as shipped does not present an inhalation hazard; however subsequent operations may create dusts or fumes which could be inhaled.

Symptoms of Exposure: May cause irritation if dusts or fumes are inhaled or swallowed. Fines/dusts may irritate skin and eyes.

Acute and Chronic Effects: Zirconium is generally considered to be physiologically inert.

Acute Toxicity: No data

Carcinogenicity: **NTP:** Not identified as carcinogenic **IARC:** Not identified as carcinogenic

To the best of our knowledge the chemical, physical and toxicological characteristics of the substance are not fully known.



12 ECOLOGICAL INFORMATION

Ecotoxicity: No data

Persistence and Degradability: No data

Bioaccumulative Potential : No data

Mobility in Soil: No data

Other Adverse Effects: Do not allow material to be released to the environment without proper governmental permits. No further relevant information available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method :

Product: Dispose of in accordance with Local regulations.

Packaging: Dispose of in accordance with Local regulations.



14 TRANSPORT INFORMATION

Shipping Regulations: Not regulated

UN Number: N/A

UN Proper Shipping Name: N/A

Transport Hazard Class: N/A

Packing Group: N/A

Marine Pollutant: No

15 REGULATORY INFORMATION

TSCA Listed: no

Regulation (EC) No 1272/2008 (CLP): N/A

Canada WHMIS Classification (CPR, SOR/88-66): N/A

HMIS Ratings: Health : 0 Flammability: 1 Physical : 0

NFPA Ratings: Health : 0 Flammability: 1 Reactivity: 0

Chemical Safety Assessment: A chemical safety assessment has not been carried out.

16 OTHER INFORMATION

The information contained in this document is based on the state of our knowledge at the time of publication and is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. WE makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information. we shall not be held liable for any damages resulting from handling or from contact with the above product. Users should satisfy themselves that they have all current data relevant to their particular use.

