

Material Safety Data Sheet(MSDS)

Material Safety Data /Supplier: FENGYE INDUSTRY LIMITED

Date: 2016-8-10

1 Identification of material/preparation and firm	
1.1 Description of preparation	Zirconium Dioxide
1.2 Use of the preparation	Ceramics
1.2 Details of manufacturer/supplier	Fengye Industry Limited
Firm	Fengye Industry Limited
Road	Yinhuai Road,Chaozhou,Guandong,China
Email:	Sales5@fygygroup.com
Nat,designation/postal code/town	521021
Telephone	0086 768-2807101

2 Composition/Information on ingredients			
Chemical characterizations of the preparation			
Description		Mixture of the substances listed below with add mixtures which are,pursuant to Ordinance on Dangerous Substances,not subject to labeling requirements.	
Contents(average values)		ZrO ₂ +HfO ₂ (min) 99.5%	
Description	%	Code letter	Composition
ZrO ₂ +HfO ₂ (min)	99.5%		
Other	0.5%		

3 Possible dangers	
Classification	Not subject to labeling requirements under the Dangerous preparations.However,please note the information contained in this safety data sheet.There is no danger of silicosis when using this product
Additional danger warnings for humans and environment	Only use material in closed jet systems.Ensure without fail that personal protective equipment is worn when using product.

4 First Aid measures	
General information	
After inhalation	Take unburned person into the fresh air and have him/her life calmly
After contact with skin	Wash off with soap and water.
After contact with eyes	In case of contact with eyes, rinse open eyes under flowing water for 10 minutes
After swallowing	Rinse out mouth and drink lots of water Do not try and cause vomiting. If person feels unwell, consult doctor
Protection of person providing First Aid	Ensure that person providing First Aid is protected.
Notes for the doctor	

5. Fire-fighting measures	
Suitable extinguishing substances	Product itself does not burn. Adapt extinguishing measures to environment.

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	
Additional information	

6. Accidental release measures	
Person-related precautionary measures	Avoid dust formation. Granules on the floor lead to an increased danger of slipping See protective measures under points 7 and 8.
Environmental protection measures	
Procedures to clean up/take up product	Take up mechanically and dispose of properly.
Additional information	

7 Handling and storage	
7.1 Handling	
Information on dealing with product safely	Avoid dust formation.
Information on fire and explosion	No special fire protection measures necessary.
7.2 Storage	
Requirements of containers	
Unsuitable material for	
information on mixed storage	LGK 13(non-flammable solid materials)

8 Exposure limits and equipment for personal protection	
8.1 Exposure limit values/Occupational limit values	
General dust limit value	
Invaluable amount(E)	10mg/m ³
Alveolar amount(A)	3mg/m ³
8.2 Equipment for personal protection	
Respiratory protection	When using the product, be sure without fail to wear fresh-air helmet with respiratory protection
Hand protection	Glove material: leather
Eye protection	(not necessary due to fresh-air helmet)
Body protection	Wear aerated combination suits without external pockets.
Protective and hygiene measures	Minimum standards regarding protective measures for dealing with working substances are listed in TRGS 500.
	So not eat, drink, smoke or take snuff during work.
	Avoid contact with skin,eyes and clothes.
	Remove soiled or soaked clothes immediately.
	Wash hands before breaks and at the end of work.
	Precautionary protection of skin through skin ointments.
Further information	Ceramic beads contain natural radionuclides. Under the above safety conditions,the exposure is,if dealt with properly,lower than 1 mSv/year(with approx.300 H/Year);health risks to the staff can therefore be excluded.

9 Physical and chemical properties	
9.1 Appearance	
State of aggregation	Solid
Shape	Round

Colour	White-beige
Smell	Odorless
9.2 Safety-relevant data	
PH value	n.m.a(not meaningfully applicable)
Melting point	Approx.2,100 °C
Solidification point	n.m.a(not meaningfully applicable)
Boiling point	n.m.a(not meaningfully applicable)
Flash point	Substance is inorganic.
Autoignition	The product is not self-igniting
Danger of explosion	The product is not self-igniting
Relative density	Approx 6 g/cm ³
water solubility	Insoluble

10 Stability and reactivity	
Conditions to be avoided	
Substances to be avoided	
Dangerous decomposition points	No dangerous decomposition products known
other details	

11 Toxicological information	
Acute toxicity	
Irritation of and caustic effect on the skin	Not irritating
Irritation of and effect on eyes	Not irritating
Sensitisation	No sensitisation
General comments	

12 Ecological information	
Eco toxic effects	No damaging effect on weather organisms is to be expected
Information on elimination	This product is, according to experience so far, inert and not degradable
Further information on ecology	with proper handling and use, no environmental problems are to be expected

13 Transport information	
Transport	Not dangerous goods within the meaning of these transport regulations

14 Other information	
Wording of R-sentences under section 2	
R-sentences	
Recommended restriction(s) of use	
Reason for change(details in the safety data sheet)	
Further information	<p>The details in this safety data correspond to the best of our knowledge to our findings at the time of printing the information is intended to provide indications on how to use the product named in this safety in respect of storage, processing, transport and disposal.</p> <p>The information is not transferable to other products. Insofar as the product named in this safety data sheet is mingled, mixed or processed, or worked on, the information in this safety data sheet, insofar as it does not specifically state anything to the contrary, cannot be transferred to the new material made in this way.</p>