

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification				
Product name:	Magnesia Stabilised	Chemical name:		$MgO.ZrO_2$
	Zirconia			
Supplier:	Anoop Ceramics [ISO 90	001: 2008 certified]		
	No 17/1-2, 1st Division,	Yeshwanthpur,		
	Bengaluru - 560022, Ka	rnataka INDIA		In case of
	Direct: +91 (80) 23371467, +91 (80) 23478329 emergency call:			emergency call:
	Fax: +91 (80) 23370958 Mobile: +91 8884915180 +91			
	Email: info@anoopindia.com			8884915180
	Skype: anoopceramics			
	Website: www.anoopce	ramics.com		
Acronym:	MSZ			
Material Use:	Technical ceramic comp	onents		
Date Prepared:	November 5 th , 2014	Revision:	1	
Prepared by:	Anoop Ostawal			

Section 2: Composition and Information			
Name:	CAS No.:	% By weight:	Remarks:
Zirconium Oxide	1314-23-4	>89	5 mg/m3 TLV and matter OSHA PEL
Magnesium Oxide	1309-48-4	<11	10 mg/m3 TLV and OSHA PEL
Hafnium Oxide	12055-23-1	<1	0.5 mg/m3 TLV and matter OSHA PEL

Section 3:					
	Hazards identification				
Emergency Overvie	Emergency Overview:				
Production poses d	Production poses dust or machining swarf that may cause irritation to eyes, nose, throat				
and/or skin.		A			
Health rating:	Flammability rating:	Reactivity rating:	Contact rating:		
2 - Moderate	0 – None	0 - None	2 - Moderate		
Lab protective equ	ipment:		proper dust collection if		
machining occurs.					
Storage Colour Code:		Green (General Storage)			
	Potential H	lealth Effects			
Inhalation:	· · ·	that of a nuisance dust only as a by-product of			
	0 0	machining. Coughing or shortness of breath may occur in cases of			
		excessive inhalation.			
Ingestion:		No adverse effects expected.			
Skin Contact:	No adverse effects ex	No adverse effects expected.			
Eye Contact:	No adverse effects ex	No adverse effects expected but dust may lead to irritation.			
Chronic Exposure:	Chronic exposure may	Chronic exposure may lead to pneumoconiosis and dermatitis.			
Aggravation of pre-		Not expected to be a health hazard.			
existing conditions	:				



	Section 4: First Aid Measures
Inhalation:	Move to fresh air and consult with local medical personnel if discomfort
	persists.
Ingestion:	Administer water to dilute, but not if person is unconscious. Consult with local
	medical personnel if discomfort persists.
Eye contact:	Flush with tepid water for a minimum of 15 minutes and consult with local
	medical personnel if discomfort persists.
Skin contact:	Wash affected area with soap and water and consult with local medical
	personnel if irritation persists.

Section 5: Fire-Fighting Measures		
Fire:	Not considered a fire hazard.	
Explosion:	Not considered an explosion hazard.	
Fire extinguishing Media:	Use any means suitable for extinguishing fire.	
Special Information:	Use protective clothing and breathing equipment	
appropriate for the surrounding fire and to protect again		
the dust that may be dispersed in the air.		

Section 6: Accidental Release Measures	
Any dust from machining should be wet mopped or dry vacuumed.	

Section 7: Handling and Storage	
Any dust from machining should be wet mopped or dry vacuumed.	

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Section 8:	Section 8: Exposure Controls and Personal Protection		
Airborne exposure limits:	Only applicable if dust is generated from machining.		
Ventilation system:	Local or general exhaust ventilation recommended.		
Personal respirators (Niosh	NIOSH/MSHA approved respirator for dust when exposure		
approved):	limit is exceeded.		
Skin protection:	Polymer gloves for prolonged dust exposure.		
Eye protection:	Safety goggles in the presence of airborne dust.		

Section 9: Physical and Chemical Properties			
Appearance:	Light yellow	pH:	N/A
Odour:	Odourless	Boiling point:	3910°C (7000°F)
Solubility:	<1% soluble in water	Melting point:	2200°C (4000°F)
Specific gravity:	5.6 to 5.8 g/cc	Vapour pressure/	N/A
		Vapour density:	



Section 10: Stability and Reactivity			
Chemical stability:		Stable	
Hazardous	N/A	Hazardous polymerization:	N/A
decomposition:			
Incompatibilities:	N/A	Conditions to avoid:	N/A

Section 11: Toxicological Information	
N/A	

	Section 12: Ecological Information	
N/A		

Section 13: Disposal considerations		
This material is not hazardous. Consultation with local officials is recommended before		
disposal.		

	Section 14: Transport Information	
Not regulated.		