

MATERIAL SAFETY DATA SHEET

Sec	ction 1: Chemical Product and Company Identificatio	n
Product name:	Calcia stabilized zirconia Chemical name:	CaO.ZrO ₂
Supplier:	Anoop Ceramics [ISO 9001: 2008 certified] No 17/1-2, 1st Division, Yeshwanthpur, Bengaluru - 560022, Karnataka INDIA Direct: +91 (80) 23371467, +91 (80) 23478329 Fax: +91 (80) 23370958 Mobile: +91 8884915180 Email: info@anoopindia.com Skype: anoopceramics Website: www.anoopceramics.com	In case of emergency call: +91 8884915180
Synonym:	CSZ	
Material Use:	Technical ceramic components	
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
Calcium Oxide	1305-78-8	<10	1 mg/m3 TLV and matter OSHA PEL
Hafnium Oxide		<11	0.5 mg/m3 TLV and matter OSHA PEL

Section 3:					
	Hazards identification				
Emergency Overvie	ew:				
Production poses di and/or skin.	ust or machining swarf tha	at may cause irritation t	o eyes, nose, throat		
Health rating:	Flammability rating:	Reactivity rating:	Contact rating:		
2 - Moderate	0 – None	0 - None	2 - Moderate		
Lab protective equipment: Eye protection and prope machining occurs.		proper dust collection if			
Storage Colour Co	de:	Green (General Storage)			
	Potential H	Health Effects			
Inhalation:		pally that of a nuisance dust only as a by-product of ghing or shortness of breath may occur in cases of ation.			
Ingestion:	No adverse effects ex	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 ma	Chronic exposure may lead to pneumoconiosis and dermatitis.			
Aggravation of pre- existing conditions	· · · · · · · · · · · · · · · · · · ·	Not expected to be a health hazard.			



	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 prote		
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.	

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:	White	рН:	N/A
Odour:	Odourless	Boiling point:	3910°C (7000°F)
Solubility:	<1% soluble in water	Melting point:	2200°C (4892°F)
Specific gravity:	5.6 g/cc	Vapour pressure/	N/A
		Vapour density:	



Section 10: Stability and Reactivity			
Chemical stability:		Stable	
Hazardous decomposition:	N/A	Hazardous polymerization:	N/A
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.		