

**MATERIAL SAFETY
DATA SHEET**

SECTION 1. IDENTIFICATION

COMPANY NAME: Xiamen Innovacera Advanced Materials Co.,Ltd	EMERGENCY TELEPHONE NO: +86-592-5589731		
GHS product identifier : Zirconia Ceramic	MSDS NUMBER: 10th	DATE OF ISSUE: 23-3-2023	
Chemical name : ired of Sitered Ceramic Formed Parts	SYNONYMS:		
PREPARED BY:	REVISION:	REVISION DATE:	REVIEWED BY:

SECTION 2.COMPOSITION/ INFORMATION ON INGREDIENTS

MATERIAL	PERCENT	CAS Number
1) Zirconia Oxide (ZrO2) All Values are Time-Weighted Averages (TWA), T = Total Particulate Matter R = Respirable Fraction of Particulate Matter	≥95%	1314-23-4

SECTION 3. PHYSICAL DATA

APPEARANCE:	ODOR: No Odor.	MELTING POINT: 2500-2700°C	SPECIFIC GRAVITY: 6.0 g/cm3
VAPOR DENSITY (AIR = 1): NA	% VOLATILE BY VOLUME: NA	BULK DENSITY: NotEst	BOILING POINT: NotEst
VAPOR PRESSURE: NA	% SOLUBILITY (H2O): Not Soluble	EVAPORATION RATE (BuOAC = 1): NA	OTHER: NA

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT & METHOD: Insoluble in water, hydrochloric acid, and dilute sulfuric acid, but soluble in hot concentrated hydrofluoric acid, nitric acid, and sulfuric acid.
FLAMMABLE LIMITS : Not detected.
LEL: UEL:
EXTINGUISHING MEDIA: NA
SPECIAL FIRE-FIGHTING PROCEDURES: NA
UNUSUAL FIRE AND EXPLOSION HAZARDS: No Fire Hazard.

SECTION 5. HEALTH HAZARD DATA

LD50 ORAL (INGESTION): NAIF	LD50 DERMAL (SKIN CONTACT) : No irritation.	LD50 (INHALATION): Solid piece.
PRIMARY ROUTE OF EXPOSURE: Skin Contact.		
EFFECTS OF OVEREXPOSURE: No hazard even at very high exposure time.		

SECTION 6. EMERGENCY AND FIRST AID PROCEDURES

These are solid materials with no odor or gas and safe to handle. No emergency or first aid procedures are required.

SECTION 7. PHYSICAL HAZARDS

No physical hazard unless hit strongly by this material.

SECTION 8. SPECIAL PROTECTION INFORMATION

VENTILATION:
Not required.

RESPIRATORY:
Not required.

EYE PROTECTION:
Not required while handling.

PROTECTIVE GLOVES:
Wear any polymer gloves.

SECTION 9. CHEMICAL REACTIVITY

CONDITIONS CAUSING INSTABILITY:
Highly inert to common acids and alkalis.

INCOMPATIBILITY (MATERIALS TO AVOID):
NAIF

HAZARDOUS DECOMPOSITION PRODUCTS:
No decomposition until 2000 C.

SPECIAL SENSITIVITY:
NotEst.

SECTION 10. STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Store in a cool and dry area.

SECTION 11. SPILL AND DISPOSAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:
Solid materials. No risk of spill or leak.

EPA RCRA ID NUMBER:

WASTE DISPOSAL METHOD:
These materials can be thrown in a dust bin and disposed in a land fill.

Not Est. = Not Established
NAIF = No Applicable Information Found
NA = Not Applicable