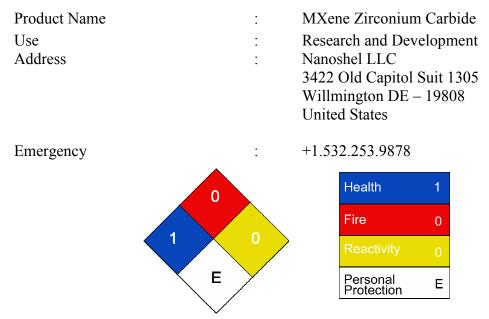
# **MATERIAL SAFETY DATA SHEET**

# MXENE ZIRCONIUM CARBIDE Stock #: NS6130-12-001969

## 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY



# 2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterisation Hazardous Ingredients	:	ZrC Nil
<b>3. HAZARD IDENTIFICATION</b>		
Toxicity Eye Contact	:	No Data Available Dust may cause irritation
4. FIRST AID MEASURES		
Skin	:	Wash skin with soap and copious amounts of water
Eyes	:	Imediate and prolonged irritation treat with copious amounts of water.
Ingestion	:	Wash out mouth with water provided person Is Conscious.
Inhalation	:	If inhaled, remove to fresh air. If not

5. FIREFIGHTING MEASURES		breathing give artificial respiration. If breathing is difficult, give oxygen	
Extinguishing Data	:	Water Spray	
Unsuitable Extinguishing Data	:	Carbon Dioxide, Dry Chemical Powder, Polymer Foam	
Unusual Firefighting Hazards	:	Capable of creating a dust explosion	
Special Firefighting Procedures	:	Use normal procedures which include wearing self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	
6. ACCIDENTAL RELEASE MEASURES			
Personal Precautions	:	Wear respirator, chemical safety goggles, rubber boots and gloves.	
Precautions to the Environment	:	Sweep up, place in a bag and hold for waste disposal.	
Cleanup Procedures	:	Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.	
7. HANDLING AND STORAGE			
Handling Precautions	:	Chemical Safety Goggles. Compatible with Chemical-resistant Gloves	
Storage	:	Store in a cool dry place.	
Unusable Packaging Materials	:	Wash thoroughly after handling. Irritating dust, Keep tightly closed	

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment		
Respiratory	:	Self-contained breathing apparatus
Hand	:	Chemical-resistant Gloves
Eye	:	Avoid contact with eyes
Skin	:	Wash thoroughly after handling

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance</u>		
Form	:	Powder
Colour	:	N/A
Odour	:	N/A

#### **Safety Related Information**

FlashPoint	:	N/A
Boiling Point	:	N/A
Melting Point	:	3532(°C)
pН	:	N/A

#### **10. STABILITY AND REACTIVITY**

Stability	:	Completely Stable
Reactivity	:	Non Reactive/ Non Soluble

#### **11. TOXICOLOGICAL INFORMATION**

#### **Possible Health Effects**

Skin	- :	No effect
Eyes	:	Irritation
Inhalation	:	No Chocking Hazard
Toxicity	:	Non-Toxic

#### **12. ECOLOGICAL IMPACT**

Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. No Negative Ecological Impact, Data not Available

#### **13. WASTE DISPOSAL**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator, equipped with an afterburner and scrubber

## 14. TRANSPORT INFORMATION (UN ORNEK OLARAK VERİLMİŞTİR)

HS Code	:	84749000
CAS	:	12070-14-3
Proper Shipping Name	:	MXene Zirconium Carbide
Air Transport (ICAO & IATA)	:	Max Phase Materials
Class	:	Non Hazardeous
Packing group	:	Normal Packing
Transport information	:	Not regulated for IATA (AIR)

#### **15. OHTER REGULATORY INFORMATION**

Federal and State Regulations: TSCA 8(b) inventory: MXene Zirconium Carbide Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada)

DSCL (EEC):

R36- Irritating to eyesS2- Keep out of the reach of childrenS46- If swallowed, seek medical advice immediately & show container or label

HMIS (U.S.A.):

Health Hazard: 1 Fire Hazard: 0 Reactivity: 0 Personal Protection: E

National Fire Protection Association (U.S.A.): Health: 1 Flammability: 0 Reactivity: 0 Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

#### **16. OTHER INFORMATION**

**References:** Not available **Other Special Considerations:** Not available