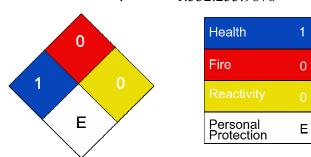
MATERIAL SAFETY DATA SHEET

BARIUM IRON OXIDE NANOPARTICLES Stock #: NS6130-12-000166

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name Use	:	Barium Iron Oxide Nanoparticles Research and Development
Address	:	Nanoshel LLC 3422 Old Capitol Suit 1305 Willmington DE – 19808+ United States
Emergency	:	+1.532.253.9878



2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterisation Hazardous Ingredients	:	BaFe ₁₂ O ₁₉ Nil
3. HAZARD IDENTIFICATION		
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 breathing give artificial respiration. If breathing is difficult, give oxygen	
5. FIREFIGHTING MEASURES			
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

:	Self-contained breathing apparatus
:	Chemical-resistant Gloves
:	Avoid contact with eyes
:	Wash thoroughly after handling
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9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance</u>		
Form	:	Powder
Colour	:	Dark brown-black
Odour	•	No Odour

Safety Related Information

FlashPoint	:	N/A
Boiling Point	:	N/A
Melting Point	:	1300 °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	:	32064990
CAS	:	12047-11-9
Proper Shipping Name	:	Barium Iron Oxide Nanoparticles
Air Transport (ICAO & IATA)	:	Speciality Chemical
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: Barium Iron Oxide Nanoparticles

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 eyes S2- Keep out of the reach of children S46- 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