

MATERIAL SAFETY DATA SHEET (MSDS)

Product Name: Titanium Dioxide Nanoparticles

Product Series: TiO₂-NANO

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Company: M/s. Techinstro

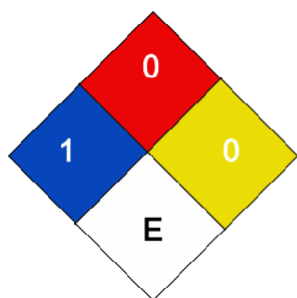
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Health	1
Fire	0
Reactivity	0
Personal Protection	E

2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterization: TiO₂

Hazardous Ingredients: Nil

3. HAZARD IDENTIFICATION

Toxicity: No Data Available

Eye Contact: Dust may cause irritation

4. FIRST AID PRECAUTIONS

Skin: Wash skin with soap & plenty of water

Eyes: Immediate & prolonged irritation treated with plenty of water.

Ingestion: Wash mouth with water if the person is conscious.

Inhalation: If inhaled, remove to fresh air. If not breathing, then give artificial respiration. If breathing is difficult, then give oxygen.

5. FIREFIGHTING MEASURES

Extinguishing: Water Spray

Unsuitable Extinguishing: CO₂, Dry Chemical Powder, Polymer Foam

Unusual Firefighting Hazards (Dangers): Capable of creating a dust explosion

Special Firefighting Procedures: Use standard procedures, which include wearing a self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE PRECAUTIONS

Personal Precautions: Wear a respirator, chemical safety goggles, rubber boots, and gloves.

Precautions to Environment: Sweep up, place in a bag, and hold for waste disposal.

Cleanup Procedures: Avoid raising dust. Ventilate area also wash the 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

Appearance Form: Powder

Color: White

Odour: No Odour

Safety Related Information

Flashpoint: N/A

Boiling Point: 2972°C

Melting Point: 1843°C

pH: 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 Choking Hazard

Toxicity: Non-Toxic

12. ECOLOGICAL IMPACT

To prevent dust from spreading, ensure the area is well-ventilated and clean up the spill site after material pickup. While there is no known negative ecological impact, data on this is currently unavailable.

13. WASTE DISPOSAL

To dispose of the material, use a solvent that can be burned and then incinerate it in a chemical incinerator with an afterburner and scrubber.

14. TRANSPORT INFORMATION

HS Code: 28230090

CAS: 13463-67-7

Proper Shipping Name: Titanium Dioxide Nano
powder Air Transport (ICAO: Oxide Nanopowder

Class: Non-Hazardous

Packing group: Normal Packing

Transport information & IATA): Not regulated for IATA (AIR)

15. OTHER REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Titanium Oxide Nano powder

Other Regulations: EINECS: The 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 away from the reach of children

S46- If swallowed, then immediately seek medical advice & show the 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 a certified respirator or equivalent.

Splash goggles

16. OTHER INFORMATION

References: Not available

The information is believed to be correct but claims to be more inclusive and shall be used only as a guide. The details in this document are based on the present state of our knowledge & apply to the product regarding appropriate safety precautions. It does not give any guarantee of the product's properties. Techinstro shall not be held liable for any damage from handling or contact with the above product. See www.techinstro.com and/or the reverse side of the invoice packing slip for additional terms and conditions of sale.