



NANO WINGS PRIVATE LIMITED

Regd. Office and R&D Centre,
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MATERIAL SAFETY DATA SHEET

HYDROXYAPATITE NANOPARTICLES - MSDS

1. PRODUCT IDENTIFICATION:

- * Chemical Name: Hydroxyapatite
- * Chemical Formula: $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$

* **Manufacturer / Supplier:**

Nano Wings Pvt Ltd
Regd. Office and R&D Centre,
10-1-96, Mamillaguda, Khammam – 507001, INDIA
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2. COMPOSITION / DATA ON COMPONENTS:

- * CAS#: 1306-06-5
- * Hydroxyapatite; Purity: 99%

3. HAZARD IDENTIFICATION:

- * **Emergency Overview** : Odorless, Chemically stable or inert and Incombustible powder.
- Inhalation** : Temporary irritation to mucous membranes may result from excessive exposure.
- Eye Contact** : Inert foreign body hazard only.
- Skin Contact** : Irritant or may cause skin to dry.
- Ingestion** : Unlikely to be hazardous by ingestion.
- Carcinogenicity** : Not known to cause cancer in human or animal.

4. FIRST AID MEASURES:

- * **Inhalation** – Move to fresh air. Person with respiratory conditions may be at increased risk.
- * **Skin contact** - Wash with water followed by soap and rinse thoroughly.
- * **Eye contact** - Flush eye for several minutes under running water.
- * **Ingestion**: In case of excessive ingestion, drink plenty of water followed by a glass of milk.
** Seek medical advice in all the above events.

5. FIRE FIGHTING MEASURES:

- * Product is not flammable/ incombustible.
- * Suitable extinguishing agents: None required. Use fire fighting measures that suit the surrounding fire.

* Special firefighting procedures: None required.

6. ACCIDENTAL RELEASE MEASURES:

- * Personal: Use proper personal protective equipment as indicated in Section 8.
- * Environmental: Avoid material from contaminating soil or entering sewage and drainage systems.
- * Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Scoop up with a non-sparking tool, then place into a suitable container for disposal. Avoid generating dusty conditions.

7. HANDLING AND STORAGE:

- * Information for safe handling:
 - Keep the container tightly sealed.
 - Store in dry place.
 - Ensure good ventilation at the workplace.

8. PERSONAL PROTECTIVE EQUIPMENT & MEASURES:

- * Eye protection: Safety glasses
- * Skin protection: Nitrile gloves and protective clothing such as cotton lab coat.
- * Ventilation: An exhaust system is recommended.
- * The usual precautionary measures for handling chemicals should be followed.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Color: White
Form: Powder
Odor: Odorless
Melting Point: 1760°C
Boiling point: N/A
Specific gravity: 3.0-3.3
Solubility in Water: Insoluble
pH: 7-8

10. STABILITY AND REACTIVITY

Chemical Stability: Inert to most chemicals and reagents. Stable under normal conditions.
Conditions to Avoid: None
Incompatibilities with Other Materials: None
Hazardous decomposition products formed under fire conditions: Metal oxide fumes.

11. TOXICOLOGICAL INFORMATION:

No Data

12. ECOLOGICAL INFORMATION:

No data.

13. DISPOSAL CONSIDERATIONS:

Disposal considerations/Recommendation: Consult state, local or national regulations to ensure proper disposal. Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Not a hazardous material for transportation.

- * Hazard class: Not regulated.
- * ADR/RID class: None
- * IMDG Class: None
- * ICAO/IATA Class: None
- * Transport/Additional information: Not dangerous according to the above specifications.

15. REGULATORY INFORMATION:

TSCA inventory: Yes

OSHA: Not regulated.

SARA Title III Hazard Categories: Acute Health
 Chronic Health
 Sudden Release of Pressure
 Reactivity

16. OTHER INFORMATION

HMIS Ratings: Health – 1 Flammability – 0 Reactivity – 0

Ratings Key: 4 – Highest hazard, 0 = Lowest hazard.

Disclaimer: Nano Wings Pvt Limited believes that the information in this Material Safety Data Sheet is accurate and represents the best and most current information available to us. Users should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Accordingly, Nano Wings Pvt Limited will not be responsible for damages resulting from use of or reliance upon this information.