



NANO WINGS PRIVATE LIMITED

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Material Safety Data Sheet (MSDS)

Calcium Carbonate (CaCO₃) Nanoparticles:

1. Identification of substance:

- * Product name: Nano Calcium Carbonate (CaCO₃) powder
- * Stock#: NWNP1512-01

- * **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#: 471-34-1
- * Nano Calcium Carbonate (CaCO₃)
- * **Molecular weight:** 100.0869 g/mol
- * **Purity:** Minimum assay: >96%
- * **Recommended Use:** Used in the manufacture of paint, rubber, plastics, adhesives, paper, dentrifices, tooth powders, whitewash, cement, ceramics, cosmetics, putty, polishes, pesticides, insecticides, antibiotics, inks, matches, pencils, crayons, linoleum, insulating compounds, and shoe dressings. Used as a source of lime, neutralizing agent, food additive, antacid, dietary supplement and anti-diarrhoeal agent.

3. Hazards Identification:

- * Hazard description: Not applicable
- * Danger to man and environment – Not applicable.
- * Classification: Eye Irrit. 2A; STOT SE 3; H319, H335

4. First Aid measures:

- * **Inhalation** – Move to fresh air. If required, provide artificial respiration. Keep patient warm.
- * **Skin contact** - Immediately wash with water and soap and rinse thoroughly.
- * **Eye contact** - Rinse opened eye for several minutes under running water

- * NEVER swallow.
 - Seek immediate medical advice in all the above events.

5. Fire fighting measures:

- * Suitable extinguishing agents - Product is not flammable. Use fire fighting measures that suit the surrounding fire.
- * Protective equipment:
- * Wear self-contained respirator. Wear fully protective impervious suit.

6. Accidental release measures:

- * Person-related safety precautions:
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- * Measures for environmental protection:
Do not allow material to be released to the environment without proper governmental permits.
- * Measures for cleaning/collecting: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal
- * Additional information:
See Section 8 for information on personal protection equipment.

7. Handling and Storage:

Handling:

- * Information for safe handling:
 - Keep the container tightly sealed.
 - Store in cool, dry place in tightly closed containers.
 - Ensure good ventilation at the workplace.
- * Information about protection against explosions and fires:
 - The product is not flammable therefore, NO special requirement.
- * Information about storage in one common storage facility:
Do not store together with acids and alkalis.

8. Exposure controls and personal protection:

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

- * **General protective and hygienic measures**

- * The usual precautionary measures for handling chemicals should be followed.
- * Keep away from foodstuffs, beverages and feed.
- * Remove all soiled and contaminated clothing immediately.
- * Wash hands before breaks and at the end of work.

- * **Personal protective equipment**

- * **Breathing equipment:**

- * Use suitable respirator when high concentrations are present.

- * **Protection of hands:** Impervious gloves

- * **Eye protection:** Safety glasses

- * **Body protection:** Protective work clothing

9 Physical and chemical properties:

- * **General Information**

- * Form: Powder
- * Color: White
- * Odor: Odorless
- * pH: 8-9
- * Melting point/Melting range: 825-1339° C Decomposes
- * Boiling point/Boiling range: Decomposes
- * Flash point: Not applicable
- * Flammability (solid, gaseous) Product is not flammable.
- * Danger of explosion: Product does not present an explosion hazard.
- * Vapor pressure: Not determined
- * Density: at 20 ° C 2.8 g/cm³
- * Solubility in / Miscibility with Water: Insoluble

10. Stability and Reactivity

Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.

- * Materials to be avoided: Acids
- * Dangerous reactions: No dangerous reactions known
- * Dangerous products of decomposition: No dangerous decomposition products known

11. Toxicological Information:

- * **Acute toxicity:** no data available
- * **Inhalation:** no data available
- * **Dermal:** no data available
- * **Skin corrosion/irritation:** no data available
- * **Serious eye damage/eye irritation:** no data available

- * **Respiratory or skin sensitization:** no data available
- * **Germ cell mutagenicity:** no data available
- * **Carcinogenicity:** no data available
- * **Reproductive toxicity:** no data available
- * **Specific target organ toxicity - single exposure**
Inhalation - May cause respiratory irritation.
- * **Specific target organ toxicity - repeated exposure:** no data available
- * **Aspiration hazard:** no data available
- * **Additional Information:**
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information:

12.1 Toxicity: no data available

12.2 Persistence and degradability: no data available

12.3 Bioaccumulative potential: no data available

12.4 Mobility in soil: no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects: no data available

13. Disposal Considerations Waste Disposal:

Disposal considerations/Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Container Disposal: The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service. Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered nonhazardous.

14. Transport information

Not a hazardous material for transportation.

* **Hazard class:** None

* **ADR/RID class:** None

* **IMDG Class:** None

* **ICAO/IATA Class:** None

* **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations:

* **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

* **Regulations**

USA: All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

Australia: Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

* **Information about limitation of use:**

For use only by technically qualified individuals.

16. Other Information

Product Use: Laboratory Reagent.

END of MSDS

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.