

Hydromax - Mineral Soil Amendment

Product and Company Identification

Product Name: Hydromax.

Product Type: Organic-Mineral Soil Amendment, Moisture Retainer.

Main Structure: Combination of natural silicate minerals and organic matter (Carbon).

CAS Number: N/A (Product is a blend of natural materials).

Intended Use: Agriculture and Horticulture.

Manufacturer: Nano Compound Semnan Dara Company

Factory Address: Semnan, Standard Square, Javan Blvd., Semnan University Science and Technology Park.

Contact Information:

Hazards Identification

Hazard Summary: Solid powder/granules, non-flammable, non-toxic. Low safety risks.

Health Hazards: Dust may cause temporary mechanical irritation to the eyes and respiratory passages. The product is free of crystalline silica (quartz) and does not pose a silicosis risk.

Composition/Information on Ingredients

Main Ingredient: Natural silicate minerals with %3-2 organic matter and carbon.

Concentration: %100 natural materials.

Heavy Metals: Present at very low levels, safe for agricultural use.

First Aid Measures

Inhalation: Move the person to fresh air. Seek medical attention if respiratory irritation persists. **Skin Contact:** Wash the affected area with soap and water.

Eye Contact: Flush eyes with plenty of water for 10 minutes. Seek medical advice if irritation persists.

Ingestion: Small amounts are not harmful. If large amounts are swallowed, drink water and consult a physician.

Firefighting Measures

Extinguishing Media: This product is non-flammable. Use any appropriate extinguishing medium (e.g., water, foam) to control surrounding fires.

Hazardous Combustion Products: None.

Accidental Release Measures

Spill: Prevent dust formation. Collect spilled material with a shovel or broom and place it in suitable containers.

Precaution: Avoid runoff into watercourses or sewer systems.

Handling and Storage

Handling: Wear basic Personal Protective Equipment (mask and gloves) during handling due to potential dust generation.

Storage: Store in a dry and cool place, away from highly reactive chemicals (such as hydrofluoric acid).

Exposure Controls/Personal Protection

Engineering Controls: Adequate general ventilation.
Respiratory Protection: Dust respirator (P1 or P2) if dust is present.
Eye Protection: Safety goggles.
Hand Protection: General working gloves.

Physical and Chemical Properties

Physical State: Solid (Granule/Powder).
Odor: Natural, Odorless.
Water Solubility: Negligible.

Stability and Reactivity

Chemical Stability: Stable under normal conditions.
Reactivity: Inert.
Incompatibility: Hydrofluoric acid and strong bases.

Toxicological Information

Toxicity: Non-toxic. No acute or chronic toxic effects are expected under normal use conditions.

Ecological Information

Ecotoxicity: The product is a natural, environmentally friendly mineral material. It is not expected to bioaccumulate or have adverse ecological effects.

Disposal Considerations

Disposal: Dispose of as non-hazardous waste in accordance with local regulations.

Transport Information

Not classified as dangerous goods for transport.