

MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : **Medicate Est OÜ**
 Address : Põdra 30, 80026 Pärnu, Estonia

Telephone : (+372) 5567 0607

Trade Name : **nanohap**
 Chemical Name/ Synonyms : HYDROXYAPATITE
 Chemical Formula : $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINECS #
HYDROXYAPATITE	1306-06-5	215-145-7

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview : Odorless white spray-dried powder when dried. Chemically stable, inert nuisance dust. Incombustible.
 May cause eye or respiratory tract irritation.

Inhalation : Temporary irritation to mucous membranes may result from excessive exposure.

Eye Contact : Inert foreign body hazard only.

Skin Contact : May have a drying affect on the skin.

Ingestion : This material is unlikely to be hazardous by ingestion.

Carcinogenicity : This material is not known to cause cancer in human or animal.

SECTION 4: FIRST AID MEASURES

Effects and Symptoms:

Effects of Overexposure to Dust : May cause mechanical irritation to eyes.

Medical Conditions Aggravated by Exposure : Persons with respiratory conditions may be at increased risk.

Primary Route(s) of Dust Entry : Inhalation or skin and eye contact.

Emergency First Aid:

Eye Contact : Flush eyes with water for at least 15 min. See physician if irritation persists.

Skin Contact : Wash well with water and mild soap.

Inhalation : Remove to fresh air.

Ingestion : In case of excessive ingestion, drink a quart or more of water, followed by a glass of milk. Call a physician.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup) : Incombustible.

Flammable Limits LEL/UEL % : N/A.

Extinguishing Media : None required. Use media required for other substances in the area.

Special Fire Fighting Procedures : None required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Avoid skin and eye contact.

Environmental Precautions : Prevent material from contaminating soil or entering sewerage and drainage systems.

Spill response : Use any feasible mechanical means to remove spilled material, such as broom, brush, scoop, vacuum, or wet absorbent materials. Avoid breathing dust during clean-up.

SECTION 7: HANDLING AND STORAGE

Store in clean, dry place. Keep work area free of spills. Keep the container tightly closed.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels: Component	OSHA	ACGIH
	TWA PEL	TWA TLV

Not Established

Personal Protection:

Eye Protection : Safety glasses with side shields.
Skin Protection : Gloves and other protective clothing may be worn to protect skin from contact with suspension.
Respiratory Protection : Use approved respirators if airborne dust concentration exceeds permissible level.
Ventilation : Local exhaust to maintain airborne dusts concentrations below permissible level.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°C)	: N/A	Percent Volatile By Vol. (%)	: < 1.0%
Freezing Point (°C)	: N/A	Vapor Density (Air=1)	: N/A
Melting Point (°C)	: 1760°C	Evaporation Rate (Buac=1)	: N/A
Vapor Pressure (mm hg)	: N/A	Solubility In Water	: Insoluble
Specific Gravity (g/cc.)	: 3.0 –3.3	Appearance & Odor	: white powder, none

SECTION 10: STABILITY AND REACTIVITY

Stable : Inert to most chemicals and reagents. Stable under normal conditions.
Hazardous Polymerization : Will not occur.
Conditions to Avoid : None.
Incompatibility : None expected.
Hazardous Decomposition Products : Fumes of metal oxides and mica particles.

SECTION 11: TOXICOLOGICAL INFORMATION

No data

SECTION 12: ECOLOGICAL INFORMATION

No information is available.

SECTION 13: DISPOSAL CONSIDERATIONS

Method of Disposal: Dispose of in accordance with all applicable federal, state, and local regulations. Material may be sent to an approved landfill or licensed treatment, storage, and disposal facility.

SECTION 14: TRANSPORT INFORMATION

Not regulated.

SECTION 15: REGULATORY INFORMATION

TSCA inventory: Yes
OSHA Specifically regulated: Not regulated.
SARA Title III Hazard Categories:
(X) Acute Health
() Chronic Health
() Sudden Release of Pressure
() Reactivity

SECTION 16: OTHER INFORMATION

HMIS Ratings: Health - 1 Flammability -0 Reactivity - 0
Ratings Key: 4= Highest hazard, 0= Lowest hazard,

Note:

The statements made here are intended to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics. This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our current knowledge.