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## Material Safety Data Sheet

### Hydroxyapatite

#### Section 1: Chemical Product and Company Identification

**Molecular formula:** Ca<sub>5</sub>HO<sub>13</sub>P<sub>3</sub>

**CAS Nr:** 1306-06-5

**EINECS:** 232-678-0

**Molecular weight:** 502.31

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#### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	%By Weight
Hydroxyapatite	1306-06-5	100

#### Section 3: Hazards Identification

**3.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

**3.2 Label elements**

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### Section 4: First Aid Measures

#### **4.1 Description of first aid measures**

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact Wash off with soap and plenty of water. In case of eye contact

Flush eyes with water as a precaution. If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### **4.2 Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

no data available

### **Section 5: Fire and Explosion Data**

#### **5.1 Extinguishing media**

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2 Special hazards arising from the substance or mixture**

Oxides of phosphorus, Calcium oxide

#### **5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information**

no data available

### **Section 6: Accidental Release Measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas.

#### **6.2 Environmental precautions**

Do not let product enter drains.

#### **6.3 Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

For disposal see section 13.

### **Section 7: Handling and Storage**

#### **7.1 Precautions for safe handling**

Normal measures for preventive fire protection.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C Do not freeze.

#### **7.3 Specific end uses**

no data available

### **Section 8: Exposure Controls/Personal Protection**

### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

- a) **Appearance Form:** suspension Colour: white
- b) **Odour** no data available
- c) **Odour Threshold** no data available
- d) **pH** no data available
- e) **Melting point/freezing point** no data available
- f) **Initial boiling point and boiling range** no data available
- g) **Flash point** not applicable
- h) **Evaporation rate** no data available
- i) **Flammability (solid, gas)** no data available
- j) **Upper/lower flammability or explosive limits** no data available
- k) **Vapour pressure** no data available
- l) **Vapour density** no data available
- m) **Relative density** no data available
- n) **Water solubility** no data available
- o) **Partition coefficient:** no data available Sigma-Aldrich - H0252 octanol/water
- p) **Autoignition emperature** no data available
- q) **Decomposition temperature** no data available
- r) **Viscosity** no data available
- s) **Explosive properties** no data available

t) **Oxidizing properties** no data available  
**9.2 Other safety information** no data available

## Section 10: Stability and Reactivity Data

**10.1 Reactivity** no data available  
**10.2 Chemical stability** no data available  
**10.3 Possibility of hazardous reactions** no data available  
**10.4 Conditions to avoid** no data available  
**10.5 Incompatible materials** Strong oxidizing agents  
**10.6 Hazardous decomposition products** Other decomposition products - no data available

## Section 11: Toxicological Information

**11.1 Information on toxicological effects Acute toxicity**  
**LD50 Oral - rat - > 25.350 mg/kg**  
**Skin corrosion/irritation** no data available  
**Serious eye damage/eye irritation** no data available  
**Respiratory or skin sensitization** no data available  
**Germ cell mutagenicity**  
**Genotoxicity in vitro - Mammal - lymphocyte**  
**DNA damage Carcinogenicity**  
**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
**Reproductive toxicity** no data available  
**Specific target organ toxicity - single exposure** no data available  
**Specific target organ toxicity - repeated exposure** no data available  
**Aspiration hazard** no data available  
**Potential health effects**  
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.  
Ingestion May be harmful if swallowed.  
Skin May be harmful if absorbed through skin. May cause skin irritation.  
Eyes May cause eye irritation.  
Signs and Symptoms of Exposure  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
Additional Information  
RTECS: MY8434000

## Section 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** no data available  
**12.6 Other adverse effects** no data available

### Section 13: Disposal Considerations

#### 13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company.  
Contaminated packaging  
Dispose of as unused product.

### Section 14: Transport Information

#### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

#### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods

#### 14.3 Transport hazard class(es) ADR/RID: - IMDG: - IATA: -

#### 14.4 Packaging group ADR/RID: - IMDG: - IATA: -

#### 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no

#### 14.6 Special precautions for user no data available

### Section 15: Other Regulatory Information

**This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

#### 15.2 Chemical Safety Assessment

no data available

### Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/10/2005 12:10 AM

**Last Updated:** 05/21/2013 12:00 PM

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