Health	1
Fire	0
Reactivity	0
Special Hazards	

Safety Data Sheet

Ca⁺⁺Pure-HA Hydroxyapatite

Section 1: Substance Composition and Source Information

Product Name: Ca⁺⁺Pure-HA Hydroxyapatite

CAS#: 1306-06-5

EC# (EINECS): 215-145-7

Chemical Name: CALCIUM HYDROXYLAPATITE Synonym: Hydroxylapatite, calcium Hydroxylapatite,

Tricalcium Phosphate, Calcium Phosphate Tribasic

Chemical Formula: Ca₁₀(PO₄)₆(OH)₂

Description: Powder

Contact Information:

Tosoh Bioscience LLC 3604 Horizon Drive, Suite 100 King of Prussia, PA 19406 USA

Phone: 484-805-1219 FAX: 610-272-3028

Emergency Phone: CHEMTREC: 800-424-9300

Section 2: Hazards Identification

Health Hazard: No significant target effects reported for calcium hydroxylapatite. May cause irritation upon short-term exposure to the eyes and respiratory tract when inhaled.

Emergency Overview: Odorless white power. Chemically stable, inert nuisance dust. Incombustible. May cause eye or respiratory tract irritation.

Inhalaltion: 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.

Listed as a Carcinogen/Potential Carcinogen:

- In the National Toxicology Program (NTP) Report on Carcinogens......No
- In the International Agency for Research on Cancer (IARC) Monographs.......No

Section 3: First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get Medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water for 15 minutes. Get medical attention. **Inhalation:** If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

Ingestion: In case of excessive ingestion, obtain immediate medical assistance.

Section 4: Fire and Explosion Data

Flammability of the Product: Incombustible Flash Point (Close Cup): Incombustible

Flammable Limits LEL/UEL %: N/A Special Fire Fighting Procedures: None required

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

Usual Fire and Explosion Hazards: None

Section 5: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 6: Handling and Storage

Precautions: Avoid contact with eyes. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.

Storage: Store and handle in accordance with all current regulation s and standards. Keep container tightly closed under normal laboratory conditions of temperature and humidity.

Section 7: Exposure Control/Personal Protection

Hazard Limits: No occupational limits established.

Personal Protection: For conditions of frequent use or heavy exposure, respirator protection may be needed. Wear splash/safety goggles, lab coat, and gloves.

Revision Date: 07/25/18

Section 8: Physical and Chemical Properties

Physical State and Appearance: Powdered solid Odor: None

Molecular Weight: 1004.96Color: White to off-whiteVolatility: NoneMelting point: 1760°CWater Solubility: InsolubleCa/P Ratio: 1.664

Solubility: Soluble in acid solutions. Insoluble in organic solvents and in buffer solutions with a pH of 5 to 10

Section 9: Stability and Reactivity Data

Stable: Inert to most chemical and reagents. Stable under normal conditions.

Hazardous Polymerization: Will not occur. Condition to Avoid: None Incompatibility: Incompatible with acids

Hazardous decomposition Product: Fumes of metal oxides and mica particles

Section 10: Toxicological Information

Routes of Entry: Inhalation. Ingestion

Toxicity to Animals: LD50: Not Available, LC50: Not Available

Chronic Effects on Humans:

- MUTAGENIC EFFECTS: Classified NONE for humans
- DEVELOPMENTAL TOXICITY: Classified Reproduction system/toxin/female, Reproductive system/toxin/mal, Development toxin [none].

Other toxic Effects on Human: Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritation), of ingestion.

Special Remarks on Toxicity to Animals: Not Available

Special Remarks on Chronic Effects on Humans: Not Available

Special Remarks on Other Toxic Effect on Humans (Acute Potential Health Effects):

- Skin: it is unlikely to cause skin irritation or injury
- Eyes: may cause eye irritation
- Inhalation: this material is a dust or may product dust. It may cause respiratory tract irritation. Breathing small amounts of
 this material during normal industry handling is not likely to be harmful.
- Ingestion: Swallowing small amounts of this material during normal industry handling is not likely to be harmful.

Section 11: Ecological Information

Environmental Fate: No information found Environmental Toxicity: No information found

Section 12: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 13: Transport Information

DOT Classification: Not a DOT controlled material (USA) Special Provisions for Transport: N/A

Identification: N/A

Section 14: Other Regulatory Information

Federal and State Regulations: No product were found

Other Regulations: Not available

WHMIS (Canada): Not controlled under WHMIS (Canada)

DSCL (EEC): R36 – irritating to eyes, S2 – Keep out of reach of children, S46 – If swallowed, seek medical attention immediately

and show container or label.

HMIS (USA): Health Hazard: 1, Fire Hazard: 0, Reactivity: 0

Section 15: Other Information

Other Special Considerations: None

Revised: 07/25/18

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