



EPOCH MASTER GLOBAL BUSINESS(JIANGSU)INC.

RM.3-93,TENGFEE BUILDING,NO.88 JIANGMIAO RD., RESEARCH AND INNOVATION PARK,

NANJING ZONE,(JIANGSU) PILOT FREE TRADE ZONE ,CHINA

## TRICALCIUM PHOSPHATE

### ◆ 1. PRODUCT AND COMPANY DESCRIPTION

- **The name of firm:**.EPOCH MASTER GLOBAL BUSINESS (JIANGSU) INC.  
**Address:** RM.3-93,TENGFEE BUILDING,NO.88 JIANGMIAO RD., RESEARCH AND INNOVATION PARK,NANJING ZONE, (JIANGSU) PILOT FREE TRADE ZONE, CHINA

**Emergency Phone Numbers:** 13770711448

- **Order online:** [www.epoch-master.com](http://www.epoch-master.com)
- **Chemical Name or Synonym:** Tricalcium Phosphate; Calcium Phosphate Tribasic
- **Molecular Formula:**Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>
- **EC No.:** 231-840-8
- **Molecular Weight:**310.18g/mol

### ◆ 2.COMPOSITION/INFORMATION ON INGREDIENTS

- **Product Name:** Tricalcium Phosphate
- **CAS Number:** [ 7758-87-4 ]
- **Hazard Percentage :** 100%

### ◆ 3. HAZARDS IDENTIFICATION

#### (1) EMERGENCY OVERVIEW:

- **Physical Appearance and Odor:**white powder solid,odorless.
- **Warning Statements:**Based on currently available data, this product does not meet the regulatory definition of a hazardous substance. However, good industrial hygiene practices should be used in handling it.

#### (2)POTENTIAL HEALTH EFFECTS:

- **Acute Eye:**Dusts may cause irritation
- **Acute Skin:**Low acute dermal toxicity. Essentially non-irritating
- **Acute Inhalation:**Dusts may cause upper respiratory tract irritation
- **Acute Ingestion:**Low acute oral toxicity. Ingestion of large quantities may cause abdominal pain, abdominal cramps,nausea, vomiting, diarrhea.
- **Chronic Effects :**This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected humancarcinogens.

### ◆ 4. FIRST AID MEASURES

#### (1) FIRST AID MEASURES FOR ACCIDENTAL:



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- **Eye Exposure:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15

minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

- **Skin Exposure:** In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

- **Inhalation:** If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

- **Ingestion:** Do not induce vomiting unless instructed to do so by a physician. No harmful effects expected. If appreciable quantities are swallowed, call a physician or poison control center. Do not leave victim unattended.

#### (2) **MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:**

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

#### (3) **NOTES TO PHYSICIAN:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically, No specific antidote available.

## ◆ **5. FIRE FIGHTING MEASURES**

### (1) **FIRE HAZARD DATA:**

- **Flash Point:** Not Applicable
- **Extinguishing Media:** Not combustible. Use extinguishing method suitable for surrounding fire.
- **Special Fire Fighting Procedures:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.
- **Unusual Fire and Explosion Hazards:** Not combustible.
- **Hazardous Decomposition Materials (Under Fire Conditions):** None known

## ◆ **6. ACCIDENTAL RELEASE MEASURES**

- **Evacuation Procedures and Safety:** Ventilate closed spaces before entering. Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.
- **Containment of Spill:** Follow procedure described below under Cleanup and Disposal of Spill.



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- **Cleanup and Disposal of Spill:** Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Clean up residual material by washing area with water. DO NOT RETURN MATERIAL TO ITS ORIGINAL CONTAINER. Collect washings for disposal. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.
- **Environmental and Regulatory Reporting:** Do not flush to drain. If spilled on the ground, the affected area should be scraped clean and placed in a appropriate container for disposal. Prevent material from entering public sewer system or any waterways.

## ◆ 7. HANDLING AND STORAGE

- **Handling:** recommended that the operator wear self-priming filter dust mask, Avoid contamination of storage containers, Avoid breathing dusts.
- **Storage:** Store in tightly closed containers. Store in an area that is isolated from all toxic and harmful substances, sanitary, dry, cool.

## ◆ 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Introductory Remarks:** These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures Should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.
- **Exposure Guidelines:** No exposure limits were found for this product or any of its ingredients.
- **Engineering Controls:** Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.
- **Respiratory Protection:** When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against dusts, mists and

fumes.

➤ **Eye/Face Protection:** Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

➤ **Skin Protection:** Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

➤ **Work Practice Controls:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: (1) Do not use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

## ◆ 9. PHYSICAL AND CHEMICAL PROPERTIES

➤ **Physical Appearance:** White crystal or amorphous powder

➤ **Odor:** odorless.

➤ **pH:** Not Applicable

➤ **Water Solubility:** Sparingly soluble

➤ **Melting Point Range:** 1670 °C (3038 °F)

➤ **Formula weight:** 310.18

➤ **Density:** 3.14

➤ **Flash point:** Non-flammable

## ◆ 10. STABILITY AND REACTIVITY

➤ **Chemical Stability:** This material is stable under normal handling and storage conditions described in Section 7.

➤ **The Following Hazardous Decomposition Products Might Be Expected:** None known

➤ **Decomposition Type:** Thermal

➤ **Hazardous Polymerization:** Will Not Occur.

- **Avoid The Following To Inhibit Hazardous Polymerization:**Not applicable

## ◆ 11. TOXICOLOGICAL INFORMATION

- **Acute Eye Irritation:**Eye - eye irritation, 100 mg, rabbit. Slightly irritating.
- **Acute Skin Irritation:**Skin - skin irritation, 500 mg, rabbit. Mildly irritating.
- **Acute Dermal Toxicity:**LD50 - lethal dose 50% of test species, > 2000 mg/kg, rabbit.
- **Acute Respiratory Irritation:**No test data found for product.
- **Acute Inhalation Toxicity:**No test data found for product.
- **Acute Oral Toxicity:**LD50 - lethal dose 50% of test species, > 5000 mg/kg, rat.
- **Chronic Toxicity:**This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

## ◆ 12. ECOLOGICAL INFORMATION

- **Ecotoxicological Information:**No data found for product.
- **Chemical Fate Information:**No data found for product.

## ◆ 13. DISPOSAL CONSIDERATIONS

- Waste Management options should first consider possible re-use or recycling opportunities. Some provinces have active "Waste Exchange" networks for re-use and recycling of wastes. Contact your local waste management companies to explore available options. All waste management activities must obey local, provincial and federal regulations. Possible disposal methods include the following: Stabilize and solidify this material with compatible binders. Then place in a secure landfill.

## ◆ 14. TRANSPORTATION INFORMATION

- **Transportation Status: IMPORTANT!**The substance is not subject to INO IMDCCode.
- The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.
- **TDG Status:**Shipping Name: NON DANGEROUS
- **IMO Status:**Shipping Name: NOT REGULATED
- **IATA Status:**Shipping Name: NOT REGULATED

## ◆ 15. REGULATORY INFORMATION

➤ **WHMIS Classification:**NOT CONTROLLED This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all the information required by the CPR.

◆ **16. OTHER INFORMATION**

➤ **Disclaimer:**The information herein is given in good faith but no warranty, expressed or implied, is made.

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