

Date: 09.12.21

DICALCIUM PHOSPHATE

SECTION 1: Identification of the substance/ mixture and the company undertaking

Product name: Di Calcium phosphate
Chemical Name: Dicalcium Orthophosphate
CAS NO: 7757-93-9
EINECS NO: 231-826-1
Synonyms: Di Basic Calcium Phosphate/Calcium Hydrogen Phosphate
Chemical Formula: CaHPO_4

SECTION 2: Hazards identification

2.1. EMERGENCY OVERVIEW:

Physical Appearance and Odor:

White powder solid, odourless

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.

2.2. POTENTIAL HEALTH EFFECTS:

Acute eye:

May cause irritation.

Acute skin:

Skin absorption not likely. May cause slight transient irritation on prolonged contact.

Acute inhalation:

Ducts may cause upper respiratory tract irritation.

Acute ingestion:

This substance is commonly used as a component in food, vitamins and pharmaceutical tablets and may be safely consumed in moderate amounts. Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.

Chronic effect:

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected.

SECTION 3: Composition / information on ingredients

Chemical Name	CAS No.	EINECS No.	Concentration
Dicalcium phosphate	7757-93-9	231-826-1	100 %

SECTION 4: First aid measures

4.1. FIRST AID MEASURES FOR ACCIDENTAL:

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, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

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 centre. Do not Leave victim unattended.

4.2. 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.

4.3. NOTES TO PHYSICIAN:

All treatments should be based on observed signs & symptoms of distress in the patients.

Consideration should be given to the possibility that over exposure to materials other than this product may have occurred.

Treat symptomatically: No specific antidote available.

SECTION 5: Firefighting measures

5.1. FIRE HAZARD DATA:

Flash point:

Not Applicable

Extinguishing media:

Not Combustible. Use extinguishing method suitable for surrounding fire.

Special Fire Fighting Procedures:

Fire fighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion hazards:

Not combustible

Hazardous Decomposition Materials (Under Fire Conditions):

None known

SECTION 6: Accidental release measures

6.1. Evacuation Procedures and safety:

Wear appropriate protective gear for the situation. See Personal Protection in Section 8.

6.2. Containment of Spill:

Follow procedure described below under cleanup and Disposal of Spill.

6.3. Cleanup and Disposal of Spill:

Sweep or vacuum up and place in an appropriate closed container (see Section 7: Handling and Storage). Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. DO NOT RETURN MATERIAL TO ITS ORIGINAL CONTAINER.

6.4. 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.

SECTION 7: Handling and storage

7.1. Minimum/Maximum Storage Temperatures:

Not Available

7.2. Handling:

This is a food ingredient for human consumption. Keep containers closed when not being used.

7.3. Storage:

Store in closed containers. Store in an area that is sanitary, isolated from all toxic and harmful substances.

SECTION 8: Exposure controls/personal protection

8.1. Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific environments and material handling practices vary, safety procedure should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping system for maintenance and repairs. Waste resulting from this procedure should be handled in accordance with section 13.

Disposal consideration:

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.2. Exposure guidelines:

No exposure limits were found for this product or any of its ingredients.

8.3. 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, local exhaust ventilation at the point of generation.

Respiratory protection:

When respirators 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.

8.4. 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 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.

8.5. 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.

8.6. 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.

SECTION 9: Physical and chemical properties

Physical appearance:

White powder solid

Odor :

Odorless

pH :

Not Applicable

Specific Gravity :

Not available

Water solubility :

Slightly soluble 0.08wt/wt % at 100° C(212 F)

Melting Point Range :

Not Available

Boiling Point Range :

Not Available

Vapour Pressure:

Not Available

Vapour Density :

Not Available

Molecular weight:

136.01

SECTION 10: Stability and reactivity

10.1. Chemical stability :

This material is stable under normal handling and storage conditions described in section 7.

10.2. Condition to be avoided :

Dusting conditions

Extreme Humidity

10.3. Materials/Chemicals to be avoided :

None known

10.4. The following hazardous decomposition product might be expected :

Decomposition Type : thermal

None known

Hazardous polymerization will not occur.

Avoid the Following to inhibit the Hazardous polymerization :

Not applicable

SECTION 11: Toxicological information

Acute Eye Irritation :

No test data found for product.

Acute Skin Irritation :

Toxicological information and interpretation:

Skin-Skin irritation, rabbit. Non-irritating

Acute Dermal Toxicity :

No test data found for product.

Acute Respiratory Irritation :

No test data found for product.

Acute Inhalation Toxicity :

No test data found for product.

Acute Oral Toxicity :

Toxicological Information and Interpretation:

LD50- lethal dose 50% of test species,> 10000mg/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

SECTION 12: Ecological information

12.1. Ecotoxicological Information:

No data found for product.

12.2. Chemical fat information:

No data found for the product

SECTION 13: Disposal considerations

13.1. Waste disposal methods

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 waste. Contact your local waste management companies to explore available options. All waste management activities must obey local, provincial and federal regulations.

Possible disposal method includes following:

Solidify this material with compatible binders. Then place in a secure landfill.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed DOT classification. The listed transportation classification does not address regulatory variance 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

SECTION 15: Other information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte.Ltd. Has been advised of the possibility of such damages.