MSDS Number: C0484 \* \* \* \* \* Effective Date: 11/02/01 \* \* \* \* \* Supercedes: 11/17/99

**MSDS** 

Material Safety Data Sheet

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865





24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-890-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

# CALCIUM PHOSPHATE MONOBASIC

## 1. Product Identification

Synonyms: Calcium Dihydrogen Phosphate; Phosphoric acid, calcium salt (2:1), monohydrate; acid calcium

phosphate; monocalcium orthophosphate; calcium superphosphate

CAS No.: 7758-23-8 Molecular Weight: 252

Chemical Formula: Ca(H2PO4)2 H2O

Product Codes: J.T. Baker: 1426 Mallinckrodt: 7810

# 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Calcium Phosphate Monobasic	7758-23-8	98 - 100%	Yes

### 3. Hazards Identification

**Emergency Overview** 

WARNING! DIRECT CONTACT WITH EYES MAY CAUSE SEVERE IRRITATION OR BURNS. MAY CAUSE RESPIRATORY TRACT IRRITATION.

## J.T. Baker SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 0 - None Flammability Rating: 0 - None Reactivity Rating: 1 - Slight Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT Storage Color Code: Orange (General Storage)

#### **Potential Health Effects**

#### Inhalation:

Inhalation of dust may cause irritation to the respiratory tract.

No adverse effects expected. Extremely large oral dosages may produce gastrointestinal disturbances.

**Skin Contact:** 

No adverse effects expected but may cause minor skin irritation.

**Eve Contact:** 

Direct contact with the eyes is irritating and may cause corneal damage.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions:

No information found.

#### 4. First Aid Measures

#### Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## 5. Fire Fighting Measures

#### Fire:

Not considered to be a fire hazard.

**Explosion:** 

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

### 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

# 8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Airpurifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

**Eye Protection:** 

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

# 9. Physical and Chemical Properties

Appearance:

White, crystalline powder.

Odor:

Odorless.

Solubility:

2 g in 100 g of water

Density:

2.22 @ 18C / 4C

pH:

No information found.

% Volatiles by volume @ 21C (70F):

**Boiling Point:** 

203C (397F)

**Melting Point:** 

100C (212F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg): No information found. Evaporation Rate (BuAc=1): Not applicable.

# 10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** 

No information found.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

No incompatibility data found.

**Conditions to Avoid:** 

No information found.

# 11. Toxicological Information

### 12. Ecological Information

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

# 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

# 14. Transport Information

Not regulated.

# 15. Regulatory Information

\Chemical Inventory Status - Part Ingredient		LOCK	шС	O orlo orra	Australia
Calcium Phosphate Monobasic (7758-23-8)		Yes	Yes		Yes
\Chemical Inventory Status - Part	2\		~ ~	411010101	
Ingredient		Korea			Phil.
Calcium Phosphate Monobasic (7758-23-8)		Yes	Yes	No	Yes
\Federal, State & International Re	egulati -SARA RQ				 A 313 mical Catg
Ingredient					
Calcium Phosphate Monobasic (7758-23-8)	No	No	No		No
\Federal, State & International Re	egulati	ons -	Part -RCRA	2\ T	SCA-
Ingredient		CERCLA		3 8	s(d) 
Calcium Phosphate Monobasic (7758-23-8)				1	
hemical Weapons Convention: No TSCA 1 ARA 311/312: Acute: Yes Chronic: No leactivity: No (Mixture / Solid)	2(b): Fire:	No : No I	CDTA Pressu	.: No re: No	

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

### 16. Other Information

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning:

WARNING! DIRECT CONTACT WITH EYES MAY CAUSE SEVERE IRRITATION OR BURNS. MAY CAUSE RESPIRATORY TRACT IRRITATION.

**Label Precautions:** 

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

**Product Use:** 

Laboratory Reagent.

**Revision Information:** 

MSDS Section(s) changed since last revision of document include: 8.

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**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)