



# SAFETY DATA SHEET

Preparation Date: 8/13/15 Revision Date: 9/17/2018 Revision Number: G2

### 1. IDENTIFICATION

**Product identifier** 

Product code: CA160

Product Name: DIBASIC CALCIUM PHOSPHATE, DIHYDRATE, POWDER, USP

Other means of identification

Synonyms: Dicalcium Phosphate Dihydrate, DCPD

Calcium Monohydrogen Phosphate

Dicalcium Orthophosphate, Dihydrate

CAS #: 7789-77-7
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available
No information available

<u>Supplier:</u> Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

<u>Contact Person:</u>
Contact Person:
Contact Pers

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

#### Label elements

### Warning

#### Hazard statements

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Wear protective gloves
Wear eye/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling

### **Precautionary Statements - Response**

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eve irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	100

## 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

2/12

1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention. If skin irritation persists, call a physician.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

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POWDER. USP

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

**Symptoms** Causes serious eye irritation

Causes skin irritation

Irritating to respiratory system

Ingestion may cause nausea, vomiting, and diarrhea

May affect the cardiovascular system
May cause central nervous system effects

It may affect the kidneys

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Product code: CA160

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

**Specific hazards:**No information available.

**Special Protective Actions for Firefighters** 

**Specific Methods:**No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid

breathing dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

**Methods for cleaning up**Use appropriate tools to put the spilled solid in a suitable waste disposal container.

Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice.

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

### **Technical Measures/Storage Conditions:**

Deliquescent. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

### National occupational exposure limits

### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Calcium Phosphate,	7789-77-7	None	None	None	None
Dibasic, Dihydrate					

### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	None	None	None	None

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POWDER. USP

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	None	None

### **Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

**Eye protection:** Safety glasses with side-shields. or Goggles

**Skin and body protection:** Chemical resistant apron

Long sleeved clothing

Gloves

**Respiratory protection:** Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator

under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidPowder.White.

Odor: Taste Formula:

Odorless. No information available. No information available

Molecular/Formula weight (g/mole): Flammability: Flashpoint (°C/°F):

172.09 g/mole No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 190°C (374°F) No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available No information available No information available

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

2.31 7.2-7.5 (25% slurry) No information available

**Evaporation rate:** Vapor density: VOC content (g/L):
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Insoluble in cold water

Insoluble in hot water Insoluble in methanol Insoluble en n-octanol

Soluble in dilute hydrochloric and nitric

acids

Insoluble in Alcohol

Solubility in water: 0.032g/ 100ml water

### 10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

**Chemical stability** 

Stability: Deliquescent. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials. Exposure to moisture. Exposure to moist air.

Incompatible Materials: Oxidizing agents

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Principal Routes of Exposure:** 

Ingestion. Inhalation.

**Acute Toxicity** 

## **Component Information**

Calcium Phosphate, Dibasic, Dihydrate

CAS-No. 7789-77-7

LD50/oral/rat = >2000 mg/kg Oral LD50 Rat (for anhydrous form CAS no. 7757-93-9)

LD50/oral/mouse = No information available

LD50/dermal/rabbit = >7940 mg/kg (for anhydrous form CAS no. 7757-93-9)

LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = > 2000 mg/kg

LD50/oral/mouse =

**Value - Acute Tox Oral =** No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = > 7940 mg/kg

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: CA160

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

**Skin Contact:** Causes skin irritation. May cause contact dermatitis.

**Eve Contact:** Causes serious eye irritation.

**Inhalation** Irritating to respiratory system. Symptoms may include coughing and sneezing.

**Ingestion** May cause digestive (gastrointestinal) tract irritation with nausea, vomiting,

diarrhea. May cause flatulence. May cause constipation. If large amounts are ingested, calcium salts may affect cardiovascular system (hypertension, atrial fibrillation, vasodilation), behavior/nervous system (confusion, somnolence, coma, decreased tendon reflexes, depression, fatigue, hallucinations, lethargy), kidneys (abnormal renal function, renal calculas) depending on the amount and duration of

ingestion. May also cause acidosis or alkalosis, hypercalcemia. .

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** Prolonged or repeated skin contact may cause drying or chapping of skin.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

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Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

Calcium Phosphate, Dibasic, Dihydrate - 7789-77-7

Water Flea Data: > 1000 mg/l LC50 96 hours (Daphnia)

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

### **Disposal Methods**

### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	None	None	None	None

#### 14. TRANSPORT INFORMATION

DOT

**UN-No:** Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

**ADR** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**ICAO** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available

Subsidiary Risk:No information availablePacking Group:No information availableERG Code:No information availableSpecial ProvisionsNo information available

## 15. REGULATORY INFORMATION

#### **International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	Not listed. Exempt from TSCA 8(b)Inventory listing since it is a hydrate. However the anhydrous form (CAs no. 7757-3-9) is listed as ACTIVE on the TSCA 8(b)		Present	Present (1)-183	Present	Present	Not present
		Inventory.						

### **U.S. Regulations**

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen		Reproductive	Female Reproductive Toxicitv:
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components	CAS-No.	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
		Hazardous	Extremely	Extremely	Chemical Category	Reporting
		Substances and	Hazardous	Hazardous		de minimis
		their Reportable	Substances	Substances and		
		Quantities	and TPQs	RQs		
Calcium Phosphate,	7789-77-7	None	None	None	None	None
Dibasic, Dihydrate						

### U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	Not Applicable	Not Applicable

### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Calcium Phosphate, Dibasic,	7789-77-7	Present	Not Listed
Dihydrate			

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	No information

#### EU - CLP (1272/2008)

#### R-phrase(s)

R36/37/38 - Irritating to eyes, respiratory system and skin.

### S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

Components	CAS-No.	 Concentration Limits:	Safety Phrases
Calcium Phosphate, Dibasic, Dihydrate	7789-77-7	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

Product code: CA160

Xi - Irritant.

## **16. OTHER INFORMATION**

**Preparation Date:** 8/13/15 **Revision Date:** 9/17/2018 Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product

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is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

Product code: CA160