

Safety Data Sheet Revision date: 07/01/2015

205

Version: 1.0

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

Product identifier

Product form

: Mixture

Product name

: Dicalcium Phosphate (18.5% P)

Product code

: DCP, DCPBG, DCPOS

Synonyms

: DCP, Dical, Calcium Hydrogen Phosphate

Product group

: Commercial product

Other means of identification

: Calcium Phosphate Dibasic

Relevant identified uses of the substance or mixture and uses advised against 1.2.

Use of the substance/preparation

: Animal and Poultry Feeds

1.3. Details of the supplier of the safety data sheet

PCS Sales (USA), Inc. 1101 Skokie Blvd.

Suite 400

Northbrook, IL 60062

T 800-241-6908 / 847-849-4200

Suite 500

122 1st Avenue South

Saskatoon, Saskatchewan Canada S7K7G3

T 800-667-0403 (Canada) / 800-667-3930 (USA)

SDS@PotashCorp.com - www.PotashCorp.com

1.4. **Emergency telephone number**

Emergency number

: 800-424-9300

CHEMTREC

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

GHS-US classification

Skin Irrit. 2 H315

Eye Irrit. 2A H319

STOT SE 3 H335

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EN (English)

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2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

: H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (GHS-US)

: P261 - Avoid breathing dust

P264 - Wash hands thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective clothing, protective

gloves

P302+P352 - IF ON SKIN: Wash with plenty of water

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable

for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P312 - Call a POISON CENTER/doctor if you feel unwell

P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

P362 - Take off contaminated clothing

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container according to local, regional, national,

and international regulations

2.3. Other hazards

Hazardous to the aquatic environment.

Per OSHA 29 CFR 1910.1200(b)(5)(iii) labelling is not required for these product(s) as labelling is covered under the requirements of the Food and Drug Administration (FDA) or the US Department of Agriculture (USDA).

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Product identifier	%	GHS-US classification
(CAS No.) 7757-93-9	54.2	Not classified
(CAS No.) 7758-23-8	19.1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
	(CAS No.) 7757-93-9	(CAS No.) 7757-93-9 54.2

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Name	Product identifier	%	GHS-US classification
Magnesium, iron, aluminum phosphates and sulfates	Mixture	4	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Moisture, residual	(CAS No.) 7732-18-5	1.8	Not classified
Fluoride, as F (max)		0.185	

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation

: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists. Keep warm.

First-aid measures after skin contact

: Wash skin thoroughly with mild soap and water. Obtain medical attention if

irritation develops or persists.

First-aid measures after eye contact

: Obtain medical attention if irritation develops or persists. Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the

eyelids wide open.

First-aid measures after ingestion

: Do not induce vomiting. If victim is conscious and alert, give 4 to 8 ounces of water or milk. Do not give anything by mouth to an unconscious person. Get medical advice and attention if you feel unwell. Seek medical attention if a large amount is swallowed.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: Irritation to eyes, skin and respiratory tract.

Symptoms/injuries after inhalation

: Inhalation of a large amount of dust may cause respiratory irritation with difficulty in breathing, sore throat, and cough.

Symptoms/injuries after skin contact

: May cause skin irritation.

Symptoms/injuries after eye contact

: May cause serious eye irritation.

Symptoms/injuries after ingestion

: If a large quantity has been ingested : Gastrointestinal irritation. Abdominal

pain. Diarrhea. Nausea. Vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

If ingested by a child, water or milk should not exceed 4 ounces.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Not flammable. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: Material is a non-flammable inorganic salt. Under conditions of fire this material may produce: Oxides of calcium. Oxides of phosphorus.

Explosion hazard

: Product is not explosive.

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Reactivity

: Stable at ambient temperature and under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions

: Keep upwind. Not flammable.

Protection during firefighting

: Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

Other information

: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

: Wear suitable protective clothing, gloves and eye/face protection. Tight fitting goggles should be worn in dusty areas to reduce dust exposure to the

eyes

Emergency procedures

: Collect as any solid. Ventilate area.

6.1.2. For emergency responders

Protective equipment

: Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures

: If possible, stop flow of product. Contain and collect as any solid. Ventilate

area.

6.2. Environmental precautions

If spill could potentially enter any waterway, including intermittent dry creeks, contact the U.S. COAST GUARD NATIONAL RESPONSE CENTER at 800-424-8802. In case of accident or road spill notify CHEMTREC at 800-424-9300. In other countries call CHEMTREC at (International code) +1-703-527-3887.

6.3. Methods and material for containment and cleaning up

For containment

: If contaminated with other materials, contain and collect as any solid in suitable containers. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Prevent large quantities from contacting vegetation.

Methods for cleaning up

Recover the product by vacuuming, shoveling or sweeping and place in appropriate container to be disposed at an appropriate disposal facility according to current applicable laws and regulations and product characteristics at the time of disposal. Provide adequate ventilation. Avoid generation of dust during clean-up of spills. If uncontaminated, recover and reuse product.

Practice good housekeeping – spillage can be slippery on smooth surface either wet or dry.

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Use recommended personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust.

Hygiene measures

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store away from fire hazards.

Incompatible materials

None known.

7.3. Specific end use(s)

Animal and Poultry Feeds

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dicalcium Phosphate (18.5% P)		
USA ACGIH (nuisance dust)	ACGIH TWA (mg/m³)	10 mg/m ³ – inhalation particulate
USA OSHA (nuisance dust)	OSHA PEL (TWA) (mg/m³)	5 mg/m³ – respirable (particulate)

8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas. Local exhaust or other ventilation should keep dust below Permissable Exposure Limits.

Personal protective equipment

Gloves. Safety glasses. Protective clothing.







Hand protection

: Impermeable protective gloves.

Eye protection

: Protective goggles. Tight fitting goggles should be worn in dusty areas to

reduce dust exposure to the eyes

Skin and body protection

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wear suitable protective

clothing. Wash contaminated clothing before reuse.

Respiratory protection

Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

: Solid

Appearance

: Granules

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Colour Eight Gray
Odour Odourless

Odour threshold No data available

pH : 3.4 (10% slurry)

Molecular weight : 136.08

Relative evaporation rate : No data available

(butylacetate=1)

Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Self ignition temperature : No data available

Decomposition temperature No data available

Flammability (solid, gas) : No data available Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 2.3 g/cm³

Bulk density: 58 to 61 lbs/ft3

Solubility : 0.0316 g/ 0.1 L at 38 °C (calcium hydrogen phosphate)

Log Pow : No data available
Log Kow : No data available
Viscosity : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Protect from moisture.

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10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under conditions of fire this material may produce: Oxides of calcium. Oxides of phosphorus.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

Calcium hydrogen phosphate (7757-93-9)		
LD50 oral rat	10000 mg/kg	
LD50 dermal rabbit	> 7940 mg/kg	

Calcium dihydrogen phosphate (7758-23-8)		
LD50 oral rat	3986 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	

Skin corrosion/irritation

: Causes skin irritation.

Serious eye damage/irritation

: Causes serious eye irritation.

Respiratory or skin sensitisation

: Not classified

Germ cell mutagenicity

: Not classified

Carcinogenicity

: Not classified

Reproductive toxicity

: Not classified

Specific target organ toxicity (single

NOL CIASSINEU

exposure)

: May cause respiratory irritation.

Specific target organ toxicity

(repeated exposure)

Not classified

Aspiration hazard

: Not classified

SECTION 12: Ecological information

12.1. Toxicity

	EPA Ecological Toxicity rating:	
Ecotoxicity:	Acute Toxicity to Fish:	No data available
	Chronic Toxicity to Fish:	No data available
	Acute Toxicity to Aquatic Invertebrates:	No data available
	Toxicity to Aquatic Plants:	No data available
	Toxicity to Bacteria: (activated sludge):	No data available
	Toxicity to Soil Dwelling Organisms:	No data available
	Toxicity to Other Non-Mammalian Terrestrial Species:	No data available
	Toxicity to Terrestrial Plants:	No data available
	Stability in Water:	No data available
Environmental Fate:	Stability in Soil:	No data available
	Transport and Distribution:	No data available
Toxicity:	Non-toxic to aquatic organisms as defined by USE	EPA.

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Degradation Products:	Biodegradation:	No data available
	Photodegradation:	No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations

: This material is hazardous to the aquatic environment. Keep out of sewers

and waterways.

Waste disposal recommendations

: Place in an appropriate container and dispose of the contaminated material

at a licensed site.

Additional information

: Dispose of waste material in accordance with all local, regional, national,

and international regulations.

SECTION 14: Transport information

In accordance with DOT / TDG / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

No dangerous good in sense of transport regulations.

14.2. UN proper shipping name

Not applicable

14.2 Additional information

Other information

: No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

1	Dicalcium	Phosphate (18.5%	5 P)	
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SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard

Calcium hydrogen phosphate (7757-93-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium dihydrogen phosphate (7758-23-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

No additional information available

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15.3. Canadian regulations

Dicalcium Phosphate (18.5% P)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Calcium hydrogen phosphate (7757-93-9)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

Calcium dihydrogen phosphate (7758-23-8)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: Other information

Other information : This product is TSE/BSE (Transmissible Spongiform Encephalopathy/Bovine

Spongiform Encephalopathy) free. No animal constituents are used in the manufacture of Defluorinated Phosphate for PCS Sales (USA) Inc. Our

product is created through a chemical process.

NFPA health hazard : 2 - Intense or continued exposure could cause

temporary incapacitation or possible residual injury

unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure

conditions, and are not reactive with water.



Full text of H- phrases:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2	
Skin Irrit. 2	skin corrosion/irritation Category 2	
STOT SE 3	H335 – May cause respiratory irritation	
H315	Causes skin irritation	
H319	Causes serious eye irritation	

Previous PotashCorp MSDS Number : MSDS 16 – Dicalcium Phosphate (18.5%P)

Section(s) Updated : Section 2.3 – Other Hazards

SDS US (GHS Hazcom 2012)

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