Material Safety Data Sheet

Revision Issued: 12/13/2011 Supercedes: 02/10/2010 First Issued: 12/31/1989

Section I – Product and Company Identification

Dicalcium Phosphate (18.5% P) Product Name:

PotashCorp MSDS No.:

16

ERG No.:

N/A

1101 Skokie Blvd., Northbrook, IL 60062 Phone (800) 241-6908 / (847) 849-4200

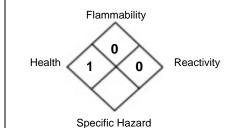


Suite 500, 122 - 1st Avenue South Saskatoon, Saskatchewan Canada S7K7G3 Phone (800) 667-0403 from Canada (800) 667-3930 from USA

Emergencies (800) 424-9300 (CHEMTREC)

Web Site www.potashcorp.com

Health Emergencies, Contact Your Local Poison Center



NFPA Code

Common Name:

Calcium Phosphate Dibasic Dihydrate

Formula:

CaHPO₄.2H₂O+ Ca(H₂PO₄)₂.H₂O

Synonym:

DCP Dical

Uses:

Animal and Poultry Feeds

Section II – Composition / Information On Ingredients										
		Exposure Limits								
Chemical Name	CAS No.	OSHA	OSHA PEL TLV – TWA STEL		С	EIL	% by			
		mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	Weight
Dicalcium phosphate dihydrate	7757-93-9	none		none		none		none		54.2
Monocalcium phosphate monohydrate	7758-23-8	none		none		none		none		19.1
Magnesium, iron, aluminum phosphates and sulfates										4
Moisture, residual										1.8
E E/ \										0.40=

The OSHA nuisance dust limit of 15 mg/m³ or the ACGIH nuisance dust limit of 10 mg/m³ for the eight hour time weighted averages applies.

Section III - Hazard Ident	ification			
Potential Acute Health Effects:				
Eyes and Skin:	Dry material may cause slight irra	ation to the eyes, skin, nose and	throat.	
Inhalation:	Respiratory tract irritation and coughing may develop.			
Ingestion:	Irritation or burns of the oropharynx, esophagus or GI tract may occur.			
Potential Chronic Health Effects:	No information is available			
CARCINOGENICITY LISTS	IARC Monograph: No	NTP: No	OSHA: No	

Section IV – First Aid Measures				
Eyes:	Flush thoroughly with water, including under the eyelids. Get medical attention if irritation continues.			
Skin:	Wash thoroughly with soap and water.			
Ingestion:	If swallowed, immediately dilute with 4 to 8 ounces of water or milk (not to exceed 4 ounces in a child)			
Inhalation:	Remove to fresh air. Keep warm. Get medical attention if discomfort continues.			

Section V – Fire Fighting Measures					
Flash Point:	Not Applicable	Autoignition Temperature:	Not Applicable		
Lower Explosive Limit:	Not Applicable Upper Explosive Limit: Not Applicable				
Unusual Fire and Explosion Hazards:	Use any extinguishing media required for surrounding fire. Dicalcium phosphate is a non-flammable inorganic salt. It may release small amounts of toxic and/or irritating phosphorus oxides when heated to high temperatures as in a fire.				
Extinguishing Media:	Not Applicable				
Special Firefighting Procedures and Equipment:	Firefighters and emergency personnel should wear full protective clothing and self-contained breathing apparatus.				

Section VI – A	Accidental Release Measures
Small Spill:	Dicalcium phosphate is used as a feed ingredient. If uncontaminated, recover and reuse product. If contaminated with other materials, collect in suitable containers.
Large Spill:	Dicalcium phosphate is used as a feed ingredient. Prevent large quantities from contacting vegetation and waterways. If uncontaminated, recover and reuse product. If contaminated with other materials, collect in suitable containers.
Release Notes:	If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number 800-424-8802. In case of accident or road spill notify: CHEMTREC IN USA at 800-424-9300; CANUTEC in Canada at 613-996-6666 CHEMTREC in other countries at(International code)+1-703-527-3887.
Comments:	See Section XIII for disposal information and Section XV for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

Section VII – Handling and Storage				
Ventilation:	Local exhaust or other ventilation that will reduce dust concentrations to less than the recommended Permissible Exposure Limit			
Handling:	Use appropriate personal protective equipment as specified in Section VIII. Avoid contact with skin and eyes. Avoid inhalation and ingestion.			
Storage:	Store in ventilated area, away from fire hazards.			

Section VIII – Exposure Controls/ Personal Protection				
Engineering Controls: Local exhaust or other ventilation that will reduce dust concentrations to less than the recommended Permissible Exposure Limit				
Personal Protection:				
Eye Protection:	Tight fitting goggles should be worn in dusty areas to reduce dust exposure to the eyes.			
Protective Clothing:	If irritation occurs, long sleeves and impervious gloves should be worn.			
Respiratory Protection:	A NIOSH-approved dust respirator should be used when exposure exceeds the OSHA nuisance dust standard of 15 mg/m³.			
Other Protective Clothing or Equipment:	Optional			

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Section IX – Physical and Chemical Properties					
Appearance/Color/Odor:	Odorless light gray granular solid Boiling Point : Not Applicable				
Melting Point/Range:	No information is available	No information is available Boiling Point Range: Not Applicable			
Solubility in Water:	0.0316 g/0.1 L @ 38°C (CAS# 7757-93-9)				
Specific Gravity:	2.3 @ 25°C	Molecular Weight:	136.08		
Vapor Density:	Not Applicable	% Volatiles:	Not Applicable		
Bulk Density:	58 to 61 lbs/ft ³	Evaporation Rate:	Not Applicable		
pH:	3.4 (10% slurry)	Freezing Point:	Not Applicable		
Viscosity:	Not Applicable	Density:	Not Applicable		

Section X – Stability and Reactivity				
Stability:	Stable			
Hazardous Polymerization:	Will not occur.			
Conditions to Avoid:	High temperatures may cause release of phosphorous oxides.			
Materials to Avoid (Incompatibles):	None known.			
Hazardous Decomposition Products:	Phosphorous oxides at very high temperatures.			

Section XI – Toxicological Information				
Significant Routes of Exposure:	Skin or eye contact, inhalation (breathing), ingestion (swallowing). Ingestion is unlikely.			
		ute Oral Toxicity:	No data available	
	Acute Inhalation Toxicity:		No data available	
Toxicity to Animala	Acute Toxicity: Other Routes:		No data available	
Toxicity to Animals:	Acute Dermal Toxicity:		No data available	
	Re	peated Dose Toxicity:	No data available	
	Eye & Skin Irritation/Corrosion:		No data available	
Special Remarks on Toxicity to Animals:		No data available		
Other Effects on Humans:		No data available		
Special Remarks on Chronic Effects on Humans		No data available		
Special Remarks on Other Effects on Humans:		No data available		

Section XII – Ecological Information				
	EPA Ecological Toxicity rating :			
	Acute Toxicity to Fish:	No data available		
	Chronic Toxicity to Fish:	No data available		
	Acute Toxicity to Aquatic Invertebrates:	No data available		
Ecotoxicity:	Toxicity to Aquatic Plants:	No data available		
Ecotoxicity.	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 USEPA.			
Degradation Products:	Biodegradation:	No data available		
Degradation Froducts:	Photodegradation:	No data available		

Section XIII – Disposal Considerations				
Product Disposal:	Depending on the type and extent of contamination, if any, special disposal methods may be required. Consult State or Federal environmental regulatory agencies for acceptable disposal procedures and locations.			
General Comments:	None			

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Section XIV – Transportation Information					
	USDOT	TDG - Canada			
Proper Shipping Name:	Not regulated	Not regulated			
Hazard Class:					
Identification Number:					
Packing Group (Technical Name):					
Labeling / Placarding:					
Authorized Packaging:					
Notes:					
European Transportation:					

	and 312 o	This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendment and reauthorization Act of 1986 (SARA title III) and is considered, under applicable definitions, to meet the following categories:							
UNITED STATES: SARA Hazard Category:	Fire:	I INO	Pressure enerating:	Reactivity:	No	Acute:	Yes	Chronic:	No
	40 CFR P	40 CFR Part 355 - Extremely Hazardous Substances:				None			
	40 CFR P	art 370 - Hazar	dous Chemic	al Reporting:	None				
	All intent	All intentional ingredients listed on the TSCA inventory.							
SARA Title III Informatio				stances subject of	the reporti	ing require	ments of	Title III (EPCI	RA) o
	trie Super	fund amendmei	nts and Reaut	norization Act of 1	986 and 40	O CFR Part			
Chamir			Percent b			SARA (19	372:	· · · · · · · · · · · · · · · · · · ·	
Chemic		CAS NO.				SARA (19	372:	· · · · · · · · · · · · · · · · · · ·	
Chemic Dicalcium phosph	cal		Percent b	y CERCLA RO	1	SARA (19	372: 986) Rep	orting	
	cal ate dihydrate	CAS NO.	Percent b	y CERCLA RO	311	SARA (19	372: 986) Rep 312	orting 313	
Dicalcium phosph Monocalcium pho	cal ate dihydrate sphate	CAS NO. 7757-93-9 7758-23-8	Percent be Weight 54.2	y CERCLA RO (Ibs)* NA NA	311 no*	SARA (19	372: 986) Rep 312 no*	orting 313 no	

CERCLA/Superfund, 40 CFR Parts 117, 302:	Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National response Center, Washington D.C. (1-800-424-8802) is required.		
	WHMIS Hazard Symbol and classification:	This product is not WHMIS controlled	
CANADA:	Ingredient Disclosure List	This product does contain ingredient(s) on this list.	
	Environmental Protection:	All intentional ingredients are listed on the DSL (Domestic Substance List).	
EINECS#:	(dicalcium phosphate dihydrate) 231-826-1		
EINECS#.	(monicalcium phosphate monohydrate) 231-837-1		
California: Prop 65:	This is not a chemical known to cause cancer,	nor is it listed.	

Section XVI – Other Information					
NFPA Hazard Ratings:	Health: 1	Fire: 0	Reactivity: 0	0 Special Hazards:	
Mi i A Hazara Natings.	0 = Insignificant	1 = Slight	2 = Moderate	3 = High	4 = Extreme
COMMENTS:	The HMIS ratings are the same as NFPA. This product is TSE/BSE (Transmissible Spongiform Encephalopathy/Bovine Spongiform Encephalopathy) free. There are no animal constituents used in the manufacture of Dicalcium Phosphate (18.5% P) for PCS Sales (USA) Inc. Our product is created through a chemical process.				
Section(s) changed since last revision:	II				

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