



Dicalcium Phosphate
Safety Data Sheet
Technical Specifications
Intolerance Data

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we provide service.

Contents

1. Safety Data Sheet	3
1.1 Description	3
1.2 Ingredients/Identity Information	3
1.3 Hazards Identification	4
1.4 First Aid Procedures	5
1.5 Fire and Hazard Data	6
1.6 Release/Spill Measures	7
1.7 Storage	7
1.8 Control Methods/PPE	7
1.9 Physical and Chemical Properties	8
1.10 Stability and Reactivity	8
1.11 Toxicological Information	9
1.12 Ecological Information	10
1.13 Disposal Considerations	10
1.14 Transport Information	10
1.15 Regulatory Information	10
1.16 Other Information	11
2. Technical Specifications	12
2.1 Product Data	12
2.2 Microbiological Test	13
2.3 Metals	13
2.4 Confirmation of Status List	14
3. Intolerance Data	15
3.1 Intolerance Data Table	15

1. Safety Data Sheet



1.1 Description

Product Name	Dicalcium Phosphate
Product Code	DCP
Supplier	LFA Machines Oxford Ltd. Unit 4b, 26-27 Murdock Road Bicester, Oxfordshire OX26499 United Kingdom Tel: +44 (0) 1869 250 234

1.2 Ingredients/Identity Information

Components	Dicalcium Phosphate
% in Product	100
CAS Number	7789-77-7
Formula	$\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$
EINECS Number	N/A

1.3 Hazards Identification



Potential Acute Health Effects	Slightly hazardous in case of eye contact (may be irritant), of inhalation (irritating to respiratory tract), of skin contact (may be irritant).
Potential Chronic Health Effects	Not available
Carcinogenic Effects	Not available
Mutagenic Effects	Not available
Teratogenic Effects	Not available
Developmental Toxicity	Not available
Hazardous Symbol/ Pictograms	Not applicable
Signal Words	Not applicable

Repeated or prolonged exposure is not known to aggravate medical condition.

To the best of our knowledge, our products do not contain any contaminants or by-products known to the State of California that cause cancer or reproductive toxicity as listed under Proposition 65 Drinking Water and Toxic Enforcement Act.

1.4 First Aid Procedures



Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water.
Serious Skin Contact	Get medical attention.
Inhalation	If inhaled, move to fresh air. If unable to breathe, give artificial respiration/CPR. If breathing is difficult, give oxygen. Get medical attention if irritation develops.
Serious Inhalation	Get medical attention.
Ingestion	Immediate first aid is not likely to be required. However, consult a doctor if feeling unwell.
Serious Ingestion	Get medical attention.

1.5 Fire and Hazard Data



Flammability of Product	Not combustible. Emits toxic fumes under fire conditions. Organic dusts can form explosive mixtures in the air.
Auto-Ignition Temperature	Not applicable
Flash Points	Not applicable
Flammable Limits	Not applicable
Products of Combustion	Not applicable

Firefighting Media and Instructions

Small Fire

Use extinguishing media most appropriate for the surrounding fire. Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode. Dike area to prevent run off and contamination of water sources.

Large Fire

Use extinguishing media most appropriate for the surrounding fire. Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode. Dike area to prevent run off and contamination of water sources.



1.6 Release/Spill Measures

Small Spill

Use proper personal protective equipment as indicated in section 1.8. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Large Spill

Use proper personal protective equipment as indicated in section 1.8. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

1.7 Storage

Precautions

Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. use only in a chemical fume hood.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

1.8 Control Methods/PPE

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure.

Personal Protective Equipment

Eyes

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or by European Standard EN166.

Skin

Wear appropriate protective gloves to prevent skin contact.

Clothing

Wear appropriate protective clothing to prevent skin exposure.

Respirators

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or in European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

1.9 Physical and Chemical Properties



Physical State	Powder
Color	White to off-white
Odor	Odorless
Solubility	Practically insoluble in water

1.10 Stability and Reactivity

Stability	Stable
Conditions to Avoid	None known
Hazardous Decomposition Products	Hydroxyapatite
Hazardous Polymerization	Not applicable

1.11 Toxicological Information



Routes of Entry	Inhalation and ingestion
Acute Oral Toxicity (LD50)	>10000 mg/kg (Rat)
Acute Dermal Toxicity (LD50)	>7940 mg/kg (Rabbit)
Carcinogenicity NTP	No
IARC	No
ZLIST	No
Other Effects on Humans	Skin absorption not likely and may cause skin irritation. May cause eye irritation. May cause irritation to mucous membranes and upper respiratory tract. Not known to be harmful when ingested in small quantities. Ingestion of large quantities may cause nausea, vomiting, diarrhea, and abdominal cramps.

See Registry of Toxic Effects of Chemical Substances (RTECS) for complete information.

1.12 Ecological Information



Ecotoxicity	Not available. Do not enter into drains.
Air pollution	Observe local/national regulations.

1.13 Disposal Considerations

Waste from Residue

Dispose of in accordance with all applicable local and national regulations.

1.14 Transport Information

Transport Classification

Not classified as dangerous for any mode of UK or International transport.

1.15 Regulatory Information

DSCL (EEC): This product is not classified according to the EU regulations.

Reviews, Standards, and Regulations: Health & Safety at Work Act 1974. COSHH Regulations (1994). EH40 Occupational Exposure Limits.

1.16 Other Information



This advice is given by LFA Machines Oxford Ltd., who accept no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterized or unknown.

We confirm that the information above is sourced from the original manufacturers/suppliers.

2. Technical Specifications

2.1 Product Data



Product Code	DCP
Raw Material Full Name	Dicalcium Phosphate
CAS Number	7789-77-7
Molecular Formula for the Raw Material	CAHPO4 2H2O
Average Molecular Weight	172 g/mol
Solubility in Water	Slightly soluble in water
Solubility in Alcohol	Insoluble in ethanol
Water Soluble Substances	Max 0.25%
Ether Soluble Substances	Max 0.05%
Loss on Drying	Max 7%
Particle Size and Percentage Passed Through	Min 80% pass 40 mesh max; max 60% pass 100 mesh max; 10% pass 325 mesh
Loss on Ignition	Max 24.5%-26.5%
Acid Insoluble Substances	Max 0.2% Barium: Accord with the test Chloride (Cl): <0.25% Fluorides: <100 ppm Sulphates (S04): <0.5%
Country of Origin	China and India
Country of Origin of the Manufacture	USA
Base Source/Start Material	Phosphorous acids and calcium carbonate
Shelf Life from Date of Manufacture	2 years
Storage Conditions	This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from the moisture and direct sunlight.
Appearance (Color, Flavor/Taste, Texture, Odor)	Free flowing fine powder. Color is white/almost white. Flavor/taste is characteristic. Texture is powder. Odor is characteristic.
Bulk Density	0.20 g/ml-0.60 g/ml

2.2 Microbiological Test



Total Viable Count	Max 1,000 cfu/g
Yeast & Moulds	Max 100 cfu/g
E. Coli	Absent
Salmonella	Absent
Coliforms	Absent
Staphylococcus aureus	Absent

2.3 Metals

Heavy Metals	Max 10 ppm
Lead (Pb)	<0.200 ppm
Iron (Fe)	<0.200 ppm
Arsenic (As)	<0.200 ppm
Pharmacopoeia Standard Used	ICP-OES

There are no nuts in this recipe, and there are no nuts on site. However, we cannot guarantee that the raw materials entering the site are nut free.

2.4 Confirmation of Status List



CONFIRMATION OF BSE/TSE STATUS

This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE. This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.

CONFIRMATION OF GM STATUS

This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under regulations 1829/2003/EC and 1830/2003/EC.

CONFIRMATION OF NON-IRRADIATION STATUS

This is to certify that this product, whole or in part, has not been subjected to ionizing radiation as per European Directives 1999/2/EC and 1000/3/EC.

CONFIRMATION OF NANDROLONE STATUS

This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.

CONFIRMATION OF IOC PRODUCT STATUS

This is to certify that this product, whole or in part, has not come into contact with any product(s) banned by the IOC (International Olympics Committee).

CONFIRMATION OF ANIMAL TESTING STATUS

This is to certify that all the products sold by LFA Machines Oxford Ltd. have not been tested on animals in any part of its manufacture in accordance with regulation 86/609/EEC.

CONFIRMATION OF PESTICIDES STATUS

This is to certify that the above-mentioned product complies with the regulation (EC) No. 396/2005 of 23rd February 2005 and commission regulation (EU) No. 559/2011 of 7th June 2011 amending annexes II and III of the above Regulation.

3. Intolerance Data

3.1 Intolerance Data Table



Free from all animal products (beef, pork, poultry, or other)	YES
Free from bovine products or derivatives by using hormones to increase milk yield in cows	YES
Free from bone meal	YES
Free from peanuts and peanut derivatives (including possible cross contamination)	YES
Free from other nut and nut derivatives	YES
Free from nut derived oil	YES
Free from sesame seeds and sesame seed derivatives	YES
Free from poppy seeds and poppy seed derivatives	YES
Free from sunflower seeds and sunflower seed derivatives	YES
Free from other seeds and seed derivatives	YES
Free from milk and milk derivatives	YES
Free from egg and egg derivatives	YES
Free from cereals containing gluten (wheat/rye/oats/barley/spelt/kamut or their hybridized strains) and derivatives	YES
Free from soya and soya derivatives	YES
Free from maize and maize derivatives	YES
Free from corn and corn derivatives	YES
Free from lupin and lupin derivatives	YES
Free from yeast and yeast derivatives	YES
Free from cotton seeds (flour) and cotton seed derivatives	YES
Free from rice and rice derivatives	YES
Free from mustard and mustard derivatives	YES
Free from celery and celery derivatives	YES
Free from celeriac and celeriac derivatives	YES
Free from fruit and fruit derivatives	YES
Free from vegetable and vegetable derivatives	YES
Free from carrot and carrot derivatives	YES
Free from legumes/pulses	YES



Free from fish and fish derivatives	YES
Free from crustaceans and/or molluscs and their derivatives	YES
Free from additives	YES
Free from added salt	YES
Free from added sugar	YES
Free from antioxidants	YES
Free from artificial glutamates	YES
Free from aspartame	YES
Free from Azo and coal tar dyes	YES
Free from benzoates (E210/E219)	YES
Free from BHA/BHT (E320/E321)	YES
Free from caffeine	YES
Free from cinnamon	YES
Free from cocoa	YES
Free from colors (artificial/nature identical/natural/smoked)	YES
Free from dextrose	YES
Free from dioxins	YES
Free from ethanol	YES
Free from ethylene oxide	YES
Free from flavorings (artificial/nature identical/natural/smoked)	YES
Free from garlic	YES
Free from gelatine	YES
Free from glutamates (E620 to E625)	YES
Free from histamine	YES
Free from hickory	YES
Free from honey	YES
Free from lactose	YES



Free from latex	YES
Free from MSG (added and naturally occurring E621)	YES
Free from nucleotides (E627, E630, E631. E635)	YES
Free from polyols	YES
Free from preservatives	YES
Free from starch products (including maltodextrin)	YES
Free from sorbic acid (E200, E203)	YES
Free from sulphur dioxide and sulphites at levels above 10 mg/kg or 10 mg/liter express as SO²	YES
Free from sweeteners	YES
Free from vanillin	YES
Suitable for diabetics	YES
Suitable for Celiacs	YES
Suitable for Ovo-Lacto Vegetarians	YES
Suitable for Vegans	YES
Kosher Certified	YES
Halal Certified	YES



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