

## SAFETY DATA SHEET

**Product:** FOSCÁLCIO 21

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**SECTION 1: IDENTIFICATION**

GHS product identifier:	FOSCÁLCIO 21
Other means of identification:	Produto Mosaic
Recommended use of the chemical and restrictions on use:	Mineral ingredient for animal feed. Recommended as a source of calcium and phosphorus.
Supplier's details:	Mosaic Fertilizantes P&K LTDA - Cajati <b>Address:</b> Rodovia BR-116, Km 488,5, Complexo Industrial. CEP: 11950-000 - Cajati - SP - Brasil. <b>Phone number:</b> (013) 3855-9201 / (013) 3855-9226 / (13) 3855 9300 <b>E-mail:</b> fispq.ehs@mosaicco.com
Emergency phone number:	(13) 3855-9100

**SECTION 2: HAZARD IDENTIFICATION**

Classification of the substance or mixture:	Not classified as hazardous by the classification system used.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.
<b>GHS label elements, including precautionary statements</b>	
Caution recommendations:	Wash your hands after handling the product. During handling of the product do not drink, eat or smoke. It is recommended the use of appropriate PPE when handling the product. Get product information before handling. Store product in a suitable place. In case of emergency, proceed as directed by the SDS GHS (EN).
Other hazards which do not result in classification:	The product has no other hazards.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>SUBSTANCE</b>	
Chemical identity of the substance:	Bis(dihidrogenorthophosphate) and calcium dydrogenorthophosphate
Common name(s), synonym(s) of the substance:	Monocalcium phosphate, monocalcium phosphate
CAS number:	Not applicable
Components contributing to the hazard:	Does not contain components that contribute to the hazard.

**SECTION 4: FIRST-AID MEASURES**

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### Description of necessary first-aid measures

Inhalation:	Remove victim to fresh air.
Skin:	Wash exposed skin with sufficient amount of water to remove the material.
Eye:	Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this document.
Ingestion:	Do not induce vomiting. Wash the exposed persons mouth with water. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Most important symptoms/effects, acute and delayed:	No symptoms and effects are expected after exposure to the material.
Indication of immediate medical attention and special treatment needed, if necessary:	If necessary, provide symptomatic treatment.

### SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:	Appropriate: Compatible with all means of extinguishing. Unsuitable: water jet directly.
Specific hazards arising from the chemical:	Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Vapors may be heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Containers may explode if heated.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Do not smoke. Avoid exposure to the material. If necessary, use personal protective equipment as described in Section 8.
For emergency responders:	Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.
Environmental precautions:	Avoid that the spilled material reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Collect the material with a clean shovel or other instrument that does not disperse the material. Put the material into appropriate containers and remove them to a safe place. For final destination, proceed pursuant to Section 13 of this document. There is no distinction between the actions for large and small leaks for this material.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

Precautions for safe handling:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid dust formation.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the

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bathroom.

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

Technical measures for prevention of fire and explosion: It is not expected that the material presents a fire or explosion hazard. Use personal protective equipment as described in Section 8.

Conditions for safe storage, including any incompatibilities: Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures. It is not necessary addition of stabilizers and antioxidants to ensure the durability.

Packaging compatibilities: Similar to the original packaging.

Inadequate packaging materials: There are not known unsuitable material.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Occupational exposure limit: The values below apply to workplaces.

- Calcium sulfate dihydrate:  
ACGIH - TLV - TWA: 10 mg/m<sup>3</sup> (I).

I: Inhalable particulate matter.

Biological limit: No biological indicators of exposure are established.

Other limits and values: No other limits and values are established.

Appropriate engineering controls: Promote mechanical ventilation and exhaust system to outside. These acts help reducing the exposition to the material. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

**Individual protection measures, such as personal protective equipment (PPE)**

Eye/face protection: Wide vision safety goggles.

Skin protection: Wear a long sleeve shirt, long pants and safety shoes. PVC, latex or rubberized canvas protective glove.

Respiratory protection: Respiratory protective mask with filter against solid particles.

Thermal hazards: It does not present thermal hazards.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: Solid, in beads.

Colour: Not available.

Odour: Not available.

Melting point/freezing point: Not available.

Boiling point or initial boiling point and boiling range: Not available.

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Flammability:	Not available.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	4.5 to 6.
Kinematic viscosity:	Not available.
Solubility:	Insoluble in water.
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Density and/or relative density:	Absolute density: 0.95 g/cm <sup>3</sup> at 25 °C (77 °F).
Relative vapour density:	Not available.
Particle characteristics:	Not available.
Other information:	Not applicable.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	There are not known hazardous reactions with the material.
Conditions to avoid:	High temperatures. Humidity.
Incompatible materials:	There are not known incompatible materials with the product.
Hazardous decomposition products:	No hazardous decomposition products are known.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Acute toxicity:	Product not classified as acute toxic. LC <sub>50</sub> Dusts and mists (rats, 4h): > 2.6 mg/L. LD <sub>50</sub> Oral (rats): > 5000 mg/kg. LD <sub>50</sub> Dermal (rats): > 5000 mg/kg.
Skin corrosion/irritation:	Not classified for skin corrosion/irritation.

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Serious eye damage/irritation:	Not classified for serious eye damage/eye irritation.	
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.	
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.	
Carcinogenicity:	It is not expected to be carcinogenic.	
Reproductive toxicity:	It is not expected to be reproductively toxic.	
STOT - Single exposure:	It is not expected to exhibit specific target organ toxicity by single exposure.	
STOT - Repeated exposure:	It is not expected to exhibit specific target organ toxicity on repeated exposure.	
Aspiration hazard:	It is not expected to present an aspiration hazard.	

### SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	It is not expected to be ecotoxic. LC <sub>50</sub> ( <i>Oryzias latipes</i> , 96 h): > 13.5 mg/L; EC <sub>50</sub> ( <i>Daphnia magna</i> , 48 h): > 2.90 mg/L; ErC <sub>50</sub> ( <i>Pseudokirchneriella subcapitata</i> , 72 h): > 4.40 mg/L.	
Persistence and degradability:	It is not expected to present persistence and degradability.	
Bioaccumulative potential:	Presents low bioaccumulative potencial in aquatic organisms.	
Mobility in soil:	Not determined.	
Other adverse effects:	No other environmental effects known.	

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.  
Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

### SECTION 14: TRANSPORT INFORMATION

<b>Road:</b>	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.	
UN number:	Not classified as hazardous for the road transportation.	
Environmental hazards:	The product is not considered dangerous for the environment for land transport.	
<b>Railway regulations:</b>	COTIF - Convention concerning International Carriage by Rail: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.	
UN number:	Not classified as dangerous for rail transport.	

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

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Environmental hazards: The product is not considered dangerous for the environment in rail transport.

**Sea:** IMO - International Maritime Organization:  
 • IMDG Code - International Maritime Dangerous Goods Code.

UN number: Not classified as hazardous for water transportation.

Environmental hazards: It's not considered a marine pollutant for transportation.

**Air:** IATA - International Air Transport Association:  
 • DGR - Dangerous Goods Regulation.

UN number: Not classified as dangerous for air transport.

Environmental hazards: The product is not considered dangerous for the environment for air transport.

Special precautions for user: Not applicable.

Transport in bulk according to IMO instruments: Consult regulations:  
 • International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;  
 • International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

### SECTION 15: REGULATORY INFORMATION

#### Safety, health and environmental regulations specific for the product in question

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

### SECTION 16: OTHER INFORMATION

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

#### Change control:

Version	Manufacture date	Changes
01	10/07/2024	Elaboration

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
 CAS - Chemical Abstracts Service;  
 EC - European Community;  
 EC<sub>50</sub>- Effective concentration of substance that causes 50 % of the maximum response;  
 EEC - European Economic Community;  
 ErC<sub>50</sub>- Effective concentration that results in a 50% reduction in the growth rate;  
 IARC - International Agency for Research on Cancer;

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LC<sub>50</sub>- Lethal Concentration 50%;  
LD<sub>50</sub>- Lethal Dose 50%;  
NIOSH - National Institute for Occupational Safety and Health;  
PBT - Persistent, bioaccumulative and toxic;  
TLV - Threshold Limit Value;  
TWA - Time Weighted Average;  
UN - United Nations;  
vPvB - Very Persistent and very Bioaccumulative.

**Bibliographic references:**

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2024.

ECHA - EUROPEAN CHEMICAL AGENCY. Available in: <<http://echa.europa.eu/web/guest>>. Access at: Oct. 2024.

GESTIS - SUBSTANCE DATABASE. Available in: <<https://gestis-database.dguv.de/>>. Access at: Oct. 2024.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available in: <<http://pubchem.ncbi.nlm.nih.gov/>>. Access at: Oct. 2024.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available in: <<http://monographs.iarc.fr/ENG/Classification/index.php>>. Access at: Oct. 2024.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY – INCHEM. Available in: <<http://www.inchem.org/>>. Access at: Oct. 2024.

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.I.]: European chemical Bureau. Access at: Oct. 2024.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available in: <<http://www.cdc.gov/niosh/>>. Access at: Oct. 2024.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available in: <<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>>. Access at: Oct. 2024.

TOXNET - TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available in: <<http://chem.sis.nlm.nih.gov/>>. Access at: Oct. 2024.