



Date of preparation:
30 September 2019

SAFETY DATA SHEET

Optiphos 10,000 Coated PF Optiphos Plus 10,000 CT

Section 1: Identification of the Substance and Supplier

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|----------------------------------|---|
| Product Name: | Optiphos 10,000 Coated PF, Optiphos Plus 10,000 CT |
| ACVM Registration Number: | Exempt |
| Recommended Use: | <i>An enzyme preparation of 6-phytase (IUB 3.1.3.26) produced by strain Komagataella pastoris, having a minimum activity of 10,000 FTU / g.</i> |
| Company Details: | AgriHealth NZ Ltd 89 Grafton Road, Grafton, Auckland 1010, New Zealand Phone: +64 9 215 1199 Fax: +64 9 984 9455 Website: www.agrihealth.co.nz |
| Emergency Telephone: | National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111 |

Section 2: Hazards Identification

Classified as not hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classification according to Commission Directive 2001/59/EC of 6 August 2001

Classification according to Regulation (EC) No 1272/2008 of December 2008

Hazard symbols:



Harmful

Risk phrases:

May cause sensitization by inhalation.

Signal words:



Danger

Hazard statements:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Section 3: Composition / Information on Ingredients

Chemical characterization

6-phytase

IUB Identification-number: 3.1.3.26

CAS-number: 37288-11-2

Each one gram of Optiphos 10,000 coated PF / Optiphos Plus 10,000 CT contains not less than 10,000 FTU of 6-phytase.

Section 4: First Aid Measures

- General information:** For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor.
Change soaked clothing.
Remove clothing where dust collected.
- After inhalation:** When spray fog inhaled, seek medical advice and show the physician the packing or the packing label.
- After contact with skin:** In case of contact with skin wash off with water.
- After contact with eyes:** In case of contact with eyes rinse immediately for at least 15 minutes with plenty of water.

After ingestion: No special measures necessary.
Rinse mouth thoroughly with water.

Workplace Facilities: No special facilities are required.

Notes for Medical Personnel: Treat exposed patients symptomatically.

Section 5: Fire Fighting Measures

Type of hazard: Non-flammable

Extinguishing Media and Methods: Water spray, foam

Section 6: Accidental Release Measures

Personal precautions: Avoid dust formulation.
Use personal protective clothing.

Methods for cleaning up: Clean equipment with a vacuum cleaner.
Avoid raising dust.
Clean contaminated floors and objects thoroughly,
observing environmental regulations.
When picked up, treat material as prescribed under
heading "Disposal".

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid the formation and deposition of dust.
Provide exhaust ventilation if dust is formed.
Avoid formation of aerosols.

Precautions for protection against fire and explosion

Take precautionary measures against electrostatic loading.
Avoid formation of dust.
Observe the general rules of industrial fire protection.

Storage Keep only in the original container.
Keep container tightly closed, cool and dry.

Approved Handlers: Not required

Section 8: Exposure Control / Personal Protection

Personal protective equipment

General protective measures

Do not inhale dust/mist.

Do not inhale aerosols.

Avoid contact with eyes and skin.

Hygienic measures

Do not eat, drink or smoke during work time.

Keep away from foodstuffs and beverages.

After worktime and during work intervals the affected skin areas must be thoroughly cleaned.

Respiratory protection:

Particle filter half mask, filter P1

Hand protection:

Rubber gloves

Eye protection:

Safety glasses with side protective shield

Skin protection:

Protective clothing

Section 9: Physical and Chemical Properties

Appearance:

Coated granules

Physical state:

Solid

Color:

Beige

Boiling point:

No applicable information found

Melting point:

No applicable information found

Vapour pressure:

No applicable information found

Vapour density:

No applicable information found

Section 10: Stability and Reactivity

Conditions to avoid:

Elevated temperatures and humidity and direct sunlight.

Section 11: Toxicological Information

Data presented refer to purified phytase fermentation product.

Sub-chronic repeated dose oral toxicity

- *Rats* 90-day-administration at doses up to 100 mg/kg, 500 mg/kg and 1000 mg/kg was safe and well tolerated (revealed no abnormalities related to the treatment).

Genotoxicity including mutagenicity

The additive cannot be considered as a potential mutagenic additive as the results from three mutagenicity tests performed with the purified fermentation product were all negative. Bacterial reverse mutation test; In-vitro Mammalian Chromosomal Aberration Test; Mammalian erythrocyte micronucleus test.

Other types of toxicity

Based on the experience that the strain is safe and the other toxicological studies did not raise any concern, no chronic oral toxicity (including carcinogenicity), reproduction toxicity, teratogenicity studies were performed.

Effects on the respiratory system

Enzymes are considered respiratory sensitizers. Adequate labelling is already provided for the present product. The actual risk will be very small since the additive appears in coated form and particle size is such that the inhalable fraction is very low.

Acute skin irritation

- *Rabbits* Primary Irritation Index 0 (negligible) – no skin irritation

Acute eye irritation

- *Rabbits* No eye irritation

Skin sensitisation

- *Guinea pigs* Assessed not to be sensitising

Section 12: Environmental Information

The enzyme is degraded in the gastro-intestinal tract, and as it is of proteinaceous material any remaining material will further degrade in nature. No accumulation will take place.

Section 13: Disposal Considerations

Disposal Information: Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility.

Section 14: Transport Information

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|-----------------------------|---|
| Land Transport | Not classified as dangerous goods for transport under NZ Standard 5433:2007 Transport of Dangerous Goods on Land. |
| Air Transport | Not classified as dangerous goods for transport under International Civil Aviation Organisation and International Air Transport Association regulations |
| Sea Transport | Not classified as dangerous goods for transport under International Maritime Organisation regulations |
| UN Number | N/A |
| Proper Shipping Name | N/A |
| DG Class | N/A |
| Subsidiary Risk | N/A |
| Packing Group | N/A |
| HAZCHEM Code | N/A |
| Marine Pollutant | No |

Section 15: Regulatory Information

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| Regulatory Status: | Exempt from registration under the ACVM Act 1997. |
| HSNO and ACVM Controls: | N/A |
| List Exposure Limits: | None set |

Section 16: Other Information

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| Additional Information: | For product information see the AgriHealth website: www.agrihealth.co.nz |
| Date of preparation: | 30 September 2019 |
| Due for revision within | 5 years. |

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