

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name: Magno Granular Enzyme Additive

Other means of identification: Granular fertiliser

Uses of the substance: enhances the uptake of water and improves phosphate uptake by converting unavailable forms of organic phosphate into available forms.

Imported by: Elemental Enzymes Australia Pty Ltd
40-42 Scott Street,
Dandenong
Victoria 3175

Telephone: 1800 691 440

Emergency telephone NO: 1300 274 007

SECTION 2: HAZARDS IDENTIFICATION

Signal word: Warning



Classification: Skin sensitisation Category 1

Hazard statements: May cause an allergic skin reaction

Precautionary statements: Avoid breathing dust/mist/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Hazards not otherwise Proteins may have the potential to provoke sensitizing reactions

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Hazard Classification	CAS-NO.	Concentration % by weight
Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one	Skin Sens Cat 1	55965-84-9	<0.05%
1,2-Benzisothiazol-3(2H)-one	Skin Sens Cat 1A	2634-33-5	<0.05%
Other ingredients			To 100%

Specific concentration limits:		
Name	Product Identifier	Specific concentration limits
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H - isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤ C < 0.6) Eye Irrit. 2, H319 (0.06 ≤ C < 0.6) Skin Irrit. 2, H315 (0.6 ≤ C ≤ 100) Eye Dam. 1, H318 (0.6 ≤ C ≤ 100) Skin Corr. 1C, H314
1,2-benzisothiazol-3(2H)-one	2634-33-5	(≥ 0.05) Skin Sens. 1A, H317

SECTION 4: FIRST AID MEASURES

Inhalation:	IF INHALED: if breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a poison centre or doctor/physician.
Eyes:	Rinse with water for several minutes. Remove contact lenses, if present and safe to do so. If eye irritation occurs seek medical advice/attention.
Skin:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs get medical advice/attention. Irritation occurs, obtain medical attention.
Ingestion:	Treat symptomatically and supportively. Seek medical attention if you feel unwell. Rinse mouth. Do not induce vomiting.
Advice to doctor:	Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media:	Determined by surrounding material. In case of fire, use water fog, dry chemical, CO ₂ , or "alcohol" foam. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.
Hazchem code:	Not applicable
Explosion hazard:	Not applicable
Special protective equipment and Precautions for fire fighter's:	In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and chemical-protective clothing. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately. Do not allow contaminated water to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Ventilate spillage area.
Environmental precautions:	Collect the spillage. Prevent further spillage and product from entering waterways.
Methods and materials for containment and cleaning up:	Contain - prevent run off into drains and waterways. Procedure for spill: (1) Keep all bystanders away (2) Wear full length clothing and PVC gloves (3) Reposition any leaking containers to minimise leakage (4) Sweep spilt material into a pile (5) Shovel into drums (6) Disposal of material will depend upon the extent of the spill: • For quantities up to 50 kg of product bury in a secure landfill site. • For quantities greater than 50 kg seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established. (7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Avoid breathing mist/spray. Keep containers closed at all times - check regularly for leaks or spills. Transport and store upright. Avoid skin and eye contact. Keep out of reach of children. Do not eat, drink, or smoke in contaminated areas. Always remove contaminated clothing and wash hands before eating, drinking, smoking, or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
Hygiene measures:	Remove any Personal Protective Equipment (PPE) immediately after handling. Wash hands and other exposed areas with soap and water after handling before drinking, eating, smoking, or applying cosmetics and when leaving work.
Storage:	Store in the original container, in a cool dry well-ventilated, locked place out of the reach of children. DO NOT store in direct sunlight. DO NOT store at temperatures below 0°C or exceeding 35°C. Keep containers closed when not in use - check regularly for leaks.
Incompatible materials:	Acids, bases, oxidizing agents, reducing agents and disinfectants may inactivate.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Component exposure limits:	No occupational exposure limit values under normal use conditions.
Engineering controls:	Ensure adequate ventilation and maintain good industrial hygiene and safety practices.
Respiratory protection:	No specific PPE required
Eye protection:	No specific PPE required but for good hygiene practices avoid contact with eyes.
Skin protection:	Wear protective gloves. Avoid contact with skin and wash hands after use.
Other information:	Follow manufacturer's instructions for cleaning/maintaining PPE. Wear clothing appropriate to for all working conditions and all chemicals being handled. Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white to light brown powder with slightly mottled appearance
Odour:	None
Odour threshold:	No data available
Physical state:	Solid
pH:	5.5-7.5 (for 2.5% w/v solution)
Boiling point:	No data available
Melting point:	No data available
Freezing point:	No data available
Vapor pressure (mmhg):	No data available
Evaporation rate:	No data available
Solubility in water:	Minimal
Decomposition temperature:	No data available
Bulk density:	0.4-0.8 g/cm ³
Percent volatile:	None
Viscosity:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Explosivity:	No data available
other information:	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	None under normal conditions.
Stability:	Stable under normal conditions, enzyme is susceptible to extreme conditions and prolonged or excessive heat.
Conditions to avoid:	Prolonged or excessive heat and open flame.
Incompatibility:	Hydrofluoric acid; strong oxidizing agents, strong reducing agents, acids, bases, reactive metals, oxidizing agents, peroxides, perchlorates, nitrates.
Possibility of hazardous reactions:	No hazardous reactions or polymerization will occur.
Hazardous decomposition or by-products:	Hazardous oxides may form with decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

No toxicity data is available for this specific product. Classification of Magno has been completed by calculating the properties of the formulation based on the properties and concentrations of its hazardous ingredients.

Ingestion:	Available information indicates that it is not considered toxic by ingestion.
Inhalation:	Available information indicates that it is not considered an inhalation risk.
Skin corrosion/irritation:	Does not cause skin irritation.
Eye irritation:	Does not cause eye irritation.
Respiratory or skin sensitisation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity:	Not suspected to cause genetic defects.
Carcinogenicity:	Not considered to be carcinogenic
Reproductive:	Not considered to be toxic to reproduction.
Specific target organ toxicity:	Not expected to cause toxicity to specific target organ from single or repeat exposure.

Aspiration hazard: Not expected to be an aspiration hazard

SECTION 12: ECOLOGICAL INFORMATION

Ecological information: Do not empty into drains.
This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability: No addition information available.

Bioaccumulative potential: No additional information available

Mobility in soil: No additional information available

Other adverse effects: No other adverse environmental effects are expected from this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Container disposal: Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT reuse this container for any other purpose. If recycling, replace cap and return clean container to recycler or designated collection point. If not recycling, break, crush or puncture and deliver to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose. Do not burn empty containers or product.

Product disposal: Do not dispose of undiluted chemicals on site. Dispose of this product only by using according to the label, or at an approved landfill. DO NOT contaminate water supply with chemical or empty container.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport: Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport: Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport: Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

SECTION 15: REGULATORY INFORMATION

AICIS Inventory: All the constituents of this material are either listed on the Australian Inventory of Industrial Chemicals (Inventory), not required due to the nature of the chemical, or have been reported under the Industrial Chemicals Act 2019 as amended.

SECTION 16: OTHER INFORMATION

General Information: None

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Key abbreviations or acronyms used: ADG Code - Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
IMDG Code – International Maritime Dangerous Goods Code
IATA - International Air Transport Association
AIIC - Australian Inventory of Industrial Chemicals.
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (July 2020)
CAS – Chemical Abstracts Service.
GHS – Globally Harmonized System.

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