SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name: RES +
Other means of identification: G311

Uses of the substance: Fertilizer - enhanced breakdown of stubble, stalks, chaff and other degradable plant matter

Distributed by:
Elemental Enzymes Australia Pty Ltd
PO Box 131
Ivanhoe,
VIC 3079
Australia

Telephone: 1800 691 440

Emergency telephone NO: 1300 274 007

SECTION 2: HAZARDS IDENTIFICATION

Signal word: Warning

Classification:
Eye Irritation Category 2
Skin Irritation Category 2

Hazard statements:
Causes serious eye irritation
Causes skin irritation

Precautionary statements:
Wash thoroughly after handling
Wear protective gloves and eye protection/face protection

Hazards not otherwise Classified (HNOC):
Proteins may have the potential to provoke sensitizing reactions
Preservative component may induce skin sensitization

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Hazard Classification	CAS No	Concentration % by weight
Sodium Hydroxide	Skin Corr Cat 1A	1310-73-2	<5%
Zinc Sulphate	Eye Dam Cat 1	7446-19-7	<1%
Citric Acid	Eye Irrit Cat 2	77-92-9	<5%
Sodium Tetraborate	Eye Irrit Cat 2	1303-96-4	<1%
Copper (II) Sulphate	Eye Irrit Cat 2	7758-99-8	<1%
Sodium Nitrate	Eye Irrit Cat 2	7631-99-4	<1%
reaction mas of 5-chloro-2-ethyl-4-iso-thiazolin-3-one and 2-methyl-2H-isothiazol-3-one	Eye Dam Cat 1	55965-84-9	<0.01%
1,2-Benzisothiazol-3(2H)-one	Eye Dam Cat 1	2634-33-5	<0.01%
Other ingredients			To 100%

SECTION 4: FIRST AID MEASURES

Inhalation:	Move to fresh air. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
Eyes:	IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.
Skin:	IF ON SKIN wash with plenty water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion:	Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.
Advice to doctor:	Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media:	Use extinguishing media appropriate for surrounding fire. Foam, dry powder, carbon dioxide, water spray, sand.
Hazchem code:	Not applicable
Explosion hazard:	Not applicable
Reactivity:	Combustion may yield noxious or toxic fumes and gases including carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxide, boron oxide, zinc oxide, potassium oxide, magnesium oxide, or molybdenum oxide
Precautions for firefighters:	Fire fighters should wear self-contained breathing apparatus and suitable protective clothing Do not breathe fumes.

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:	Intentional misuse of contents can be harmful. Ensure adequate ventilation. Handle container in a manner to prevent spillage. Avoid breathing vapors. Do not get in eyes or on clothing.
Hygiene measures:	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:	None expected under normal use conditions.
Engineering controls:	Ensure adequate ventilation and maintain good industrial hygiene and safety practices.

Respiratory protection:	None is needed under adequate ventilation conditions.
Eye protection:	Wear approved safety glasses with side shields.
Skin protection:	Wear gloves, trousers, long sleeved shirt or overalls and closed in shoes or safety footwear may be worn. Wash hands after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear blue liquid
Odour:	Minimal, earthy
Odour threshold:	No data available
Physical state:	Liquid
pH as supplied:	6.0-8.0
Boiling point:	No data available
Melting point:	No data available
Freezing point:	No data available
Vapor pressure (mmhg):	No data available
Specific gravity (H_2O = 1):	1.19
Evaporation rate:	No data available
Solubility in water:	Dispersible in water
Decomposition temperature:	No data available
Density:	1.180 – 1.200 g/cm^3 (densimeter)
Percent volatile:	<1%
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: Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	None under normal conditions.
Stability:	Stable under normal conditions Susceptible to extreme conditions and prolonged or excessive heat.
Conditions to avoid:	Prolonged or excessive heat and open flame, direct sunlight, and freezing.
Incompatibility (material/conditions to avoid):	Strong oxidizing agents, strong reducing agents, acids, bases, direct sunlight, nitrates.
Possibility of hazardous reactions:	No hazardous polymerization will occur.
Hazardous decomposition or by-products:	Hazardous oxides may form with decomposition. Under extreme conditions, irritating gases may form.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity (oral)	**:** LD50 >5000 mg/kg
Acute toxicity (dermal)	**:** LD50 >5000 mg/kg
Acute toxicity (inhalation)	**:** LD50 >5000 mg/kg
Skin corrosion/irritation:	**:** Not classified (Based on available data, the classification criteria are not met)
Eye irritation:	**:** Causes serious eye irritation
Respiratory or skin sensitisation:	**:** Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity:	**:** Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity:	: Not classified (Based on available data, the classification criteria are not met)
Reproductive:	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity:	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard:	: Not classified (Based on available data, the classification criteria are not met)

SECTION 12: ECOLOGICAL INFORMATION

Ecological information:	Do not empty into drains.
Aquatic toxicity:	Likely to be toxic to fish, aquatic invertebrates and plants when concentrated.
Persistence and degradability:	No additional information available
Bioaccumulation potential:	No additional information available
Mobility in soil:	Likely to be mobile in the environment due to solubility in water
Other adverse effects:	No additional information available

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
Issue Number:	001
Issue Date:	08 March 2023
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.