

1. PRODUCT & COMPANY IDENTIFICATION

Product Identification/Name	Amino-80
Alternative Name	Enzymatic Amino Acid 80%
Product Use	Bio stimulant
Company Identification	Rainbow & Brown Limited 68A Tallyho Street, Rotorua, New Zealand PO Box 10049, Mail Centre, Rotorua, 3046
Telephone	+64 7 350 2009
Toll-Free Phone	0508 299 299
After Hours Emergency	+64 27 498 2574
National Poisons Centre	0800 764 766
Website	www.rainbowbrown.co.nz
Date of Issue	17 April 2025 – Version 1.0
Expiry Date	17 April 2030

2. HAZARD IDENTIFICATION

This substance is NON hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (%w/w)
Non-Hazardous – Amino Acid		100

4. FIRST-AID MEASURES

Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Remove contact lenses after first 5 minutes if present and easy to do, the continue rinsing. Get medical advice/assistance if irritation persists.
Skin	Remove contaminated clothing. Wash gently and thoroughly with plenty of water (use non-abrasive soap if necessary). Do not scrub the skin. Get medical advice/attention if irritation occurs. Wash contaminated clothing before re-use.
Ingestion	If swallowed, do NOT induce vomiting. Rinse mouth with water. Contact a Poisons Information Centre or call a doctor if you feel unwell.

Inhalation	No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air, and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.
General	Call the National Poisons Centre (0800 POISON, 0800 764 766) for advice if you feel unwell or have been exposed and are concerned. Have product label or SDS at hand.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	water spray, dry chemical, carbon dioxide, or appropriate foam
Fire & Explosion Hazards	Non flammable
Fire Fighting Equipment	SCBA and full protective gear
Fire Fighting Instructions	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion
Hazchem Code	None allocated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Clear area of all unprotected personnel. Keep people upwind of fire. Use appropriate protective clothing and equipment.
Spills	Wear full protective clothing including eye/face protection. All skin areas should be covered. Refer to Section 8 for personal protective equipment. If vapours or mists are likely to build up in the clean-up area, we recommend to use a respirator. Usually, no respirator is necessary when using this product. Stop leak if safe to do so and contain spill. Collect liquid spills. Absorb small spills and residues with sand, vermiculite, or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect contaminated solids into labelled containers for recycling or salvage and dispose of promptly. Ensure legality of disposal by consulting regulations prior to disposal.

7. HANDLING AND STORAGE

Handling	Read label before use. Refer to Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling to minimise risks to persons using the product in the workplace. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.
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Storage	Keep out of reach of children. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Store protected from moisture.
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8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines	Ingredient	CAS Number	WES-TWA	WES-STEL	WES-CEILING	Notations
	N/A	N/A	N/A	N/A	N/A	N/A
WorkSafe's 15th edition of WES and BEI values, published February 2025. The WES-TWA (Time-Weighted Average) exposure value is the average airborne concentration of a particular substance calculated over a normal 8 hour working day for a 5-day working week. The WES-STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "applies to substances with rapid effects, where even brief exceedances of the TWA limit should never occur.						
Engineering Controls	No special engineering controls or ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean, and that vapours and spray mists are minimised.					
Personal Protection						
Respiratory Protection	Usually, no respirator is necessary when using this product. However, if you have any doubts refer to standard AS/NZ 1715 for appropriate equipment.					
Skin Protection	Wear protective clothing such as impervious gloves, waterproof hat, coat and trousers when using. Use impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types. Protective clothing be made from the following materials: rubber, PVC. Refer to Standard AS 2161, AS2919 and AS.NZ2210.					
Eye Protection	Protective glasses or goggles should be worn when this product is being used. Emergency eye wash facilities are also recommended in an area close to where this product is being used. Refer to standard AS.NZ1337.					
Dust	Avoid dust generation. Wear PPE when dust is generated.					
General advice	Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used. Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work. Launder contaminated clothing separately from household laundry.					

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Light yellow powder
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Non-combustible
Flammability	Not available
Upper/Lower Flammability or Exposure Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available
Water Solubility	100% soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

10. STABILITY & REACTIVITY

Stability	Stable under normal temperatures and pressures
Reactivity	None known
Conditions to Avoid	Aluminium, diazomethane, phosphorus
Incompatibility	None known
Hazardous Decomposition Products	In event of fire, PO _x
Hazardous Polymerisation	Not known

11. TOXOLOGICAL INFORMATION

ACUTE EFFECTS	
Oral Toxicity	Not applicable
Dermal Toxicity	Not applicable
Inhalation Toxicity	Not applicable
Eye Corrosion/Irritation	Not applicable
Skin Corrosion/Irritation	Not applicable
CHRONIC EFFECTS	
Carcinogenicity	Not applicable
Reproductive Toxicity	Not applicable
Germ Cell Mutagenicity	Not applicable
Aspiration	Not applicable
STOT/SE	Not applicable
STOT/RE	Not applicable

12. ECOLOGICAL INFORMATION

This product is not known to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of according to local regulations.
Container Disposal	Crush or puncture and bury in a suitably approved landfill.

14. TRANSPORT INFORMATION

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

15. REGULATORY INFORMATION

All of the significant ingredients in this formulation are compliant with NICNAS regulations.

ACVM Act 1997 Registration No.	Not required
HSNO Approval No.	This product is exempt under the ACVM Regulations
Certified Handler	Not required

Qualified Handler	Not required
Tracking	Not required
Compliance Certificate	Not required
Quantity that must be secured	Not required
Location Certificate	Not required
Emergency Response Plan	Not required
Secondary Containment	Not required
Signage	Not required
Fire Extinguishers	Not required
Record-keeping	Not required

16. OTHER INFORMATION

Glossary

AEL	Acceptable Exposure Limit
DT₅₀	Time (days) for 50% loss
EC₅₀	Median effective concentration
EEL	Environmental Exposure Limit
EPA	Environment Protection Authority
GHS	Globally Harmonised System
HSNO	Hazardous Substances & New Organisms Act
Koc	Organic carbon partition coefficient
LFL	Lower Flammability Limit
LC₅₀	Lethal Concentration in air or water for 50% of test organisms
LD₅₀	Lethal Dose for 50% of test organisms
NOEL	No Observable Effect Level
OSHA	Occupational Safety & Health Administration (USA)
OSH or WorkSafe	WorkSafe New Zealand
PEL	Permissible Exposure Level
Pow	Octanol water partition coefficient (ratio of concentration of a chemical in octanol and water at equilibrium and at a specified temp.)
pH	Measure of acidity/alkalinity of a substance on a 1-14 scale (1=strong acid, 14 = strongly alkali)

Amino-80

STEL	Short Term Exposure Limit
TEL	Tolerable Exposure Limit
TLV	Threshold Limit Value – an exposure limit set by a competent authority
TWA	Time Weighted Average – average concentration of a chemical in air over a total exposure time (usually 8 hours)
UFL	Upper Flammability Limit
WES	Workplace Exposure Standard – set by WorkSafe NZ

The data in this Safety Data Sheet relates only to this product alone, and not to its use in combination with other substances or products. In such circumstances, assuming the combination is permitted (refer to product labels, and contact manufacturer if in doubt), be guided by the most hazardous of the substances involved and observe the more stringent of all hazard controls applicable to the products used.

Date of Safety Data Sheet: 17 April 2025

Further Information: Rainbow & Brown Limited
Toll-Free Phone (0508) 299 299
