

SAFETY DATA SHEET

AMINO BOSS LARGO

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier

Product Name Amino Boss Largo

Other Name(s) Plant active chelate formulation containing Nitrogen 60 g/L, Manganese 24 g/L, Zinc 13 g/L, Copper 8 g/L, Magnesium 8 g/L

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Fertiliser

Uses advised against No information available

Supplier

Sipcam New Zealand Limited
20 Jean Batten Drive, Mt Maunganui 3116 New Zealand
Telephone Number: 0800 220 002 (business hours)
Email: info@sipcam.co.nz
Website: www.sipcam.co.nz

Emergency telephone number: **0800 CHEMCALL (0800 243 622) 24 hours**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

2. HAZARDS IDENTIFICATION

GHS Classification

Not classified as a hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Magnesium Amino Acid Chelate	-	<5%
Zinc Amino Acid Complex	-	<5%
Manganese Amino Acid Chelate	-	<5%
Copper Amino Acid Complex	-	<1%
Non-hazardous ingredients	Proprietary	Balance

4. FIRST AID MEASURES

Description of first aid measures

General advice For advice, call the National Poison Centre, telephone 0800 POISON (0800 764 766).

IF SWALLOWED:	Contact a POISON CENTRE or doctor for advice if you feel unwell.
IF ON SKIN:	Wash with plenty of soap and water. Get medical advice/attention if skin irritation develops.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if eye irritation develops.
IF INHALED:	Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISONS CENTRE or doctor for advice if person feels unwell.

Most important symptoms and effects, both acute and delayed

Symptoms None known

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical, CO₂, sand, earth, water spray or regular foam.

Unsuitable extinguishing media High volume water jet. Do not spread spilled material with high-pressure water Streams

Specific hazards arising from the chemical

Specific hazards arising from the chemical Carbon oxides. Nitrogen oxides. Metal oxides.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear protective clothing and self-contained breathing Apparatus.

HAZCHEM code 2Y

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Do not breathe vapours or mists.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Dike to collect large liquid spills. Absorb with earth, sand or other non-combustible material and transfer to labelled containers for later disposal.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable labelled containers for disposal. Dispose of contaminated materials to approved landfill in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands with water as a precaution..

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place..

Incompatible materials Strong oxidizing agents, strong acids, and strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Ingredient	TWA (mg/m ³)	STEL (mg/m ³)
Copper sulfate pentahydrate (Copper and its inorganic compounds, as Cu – CAS 7440-50-8)	0.01(r)	-
Manganese sulfate monohydrate (Manganese fume, dust and compounds, as Mn - 7439-96-5)	0.2; 0.02(r)	-

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

Short-term exposure limit (WES-STEL) - The 15-minute time weighted average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Exposures at concentrations between the WES-TWA and the WES-STEL should be less than 15 minutes, should occur no more than four times per day, and there should be at least 60 minutes between successive exposures in this range.

Ceiling (WES-Ceiling) - A concentration that should not be exceeded at any time during any part of the working day.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. The exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls

Engineering controls

Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as personal protective equipment



Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing and overalls.
Hand protection	Wear suitable gloves.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Environmental exposure controls	No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Brown liquid
Odour	No data available
Odour threshold	No information available
pH	3.5-4.0
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash point	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.26 - 1.27
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Particle characteristics	No data available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable.

Chemical stability

Stability Stable under normal conditions of storage and use.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization not known to occur.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

Incompatible materials Strong oxidizing agents, strong acids, and strong bases.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides. Metal oxides.

11. TOXICOLOGICAL INFORMATION

Health hazard information

The product is not classified for health hazards according to an assessment of information on product and its ingredients (mixture rules)

Toxicological information

Acute toxicity:	Not classified.
Aspiration hazard:	Not Classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified.
Germ cell mutagenicity:	No ingredients in product identified as presumed or suspected mutagens.
Carcinogenicity	No ingredients in product identified as presumed or suspected carcinogens.
Reproductive toxicity	No ingredients in product identified as presumed or suspected reproductive toxicants.
Specific target organ toxicity – single/repeated exposure	Not classified as specific target organ toxicant.

Narcotic effects

Not classified as having narcotic effects.

Numerical measures of toxicity - Product Information

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Copper sulfate pentahydrate	= 960 mg/kg	-	-
Zinc sulfate monohydrate	= 1891 mg/kg	-	-

See section 16 for terms and abbreviations

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity

This product is classified as Very toxic to aquatic life with long lasting effects based on an assessment of information on product and its ingredients (mixture rules).

Environmental Fate

Breakdown in soil and groundwater: No data available

Bioaccumulation: No data available

Partition coefficient (octanol/water): No data available

Soil mobility: No data available

Ecotoxicity data

No data for **product**.

Copper sulfate pentahydrate: EC 50 = 0.0031 mg/l *Selenastrum capricornutum*

Zinc sulfate monohydrate: LC50 302 ug/l *Oncorhynchus mykiss*

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of this product only by using according to the label, or through a Chemical Recovery service or other licensed hazardous waste disposal facility.

Container Disposal

Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and dispose of at an approved landfill.



14. TRANSPORT INFORMATION

Road and Rail Transport:

Not classified as Dangerous Good according to NZS5433 Transport of Dangerous Goods on Land

Marine Transport (IMO/IMDG):

Not classified as Dangerous Good by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

15. REGULATORY INFORMATION

Not classified as a hazardous substance according to Hazardous Substances (Classification) Notice 2020.

Qualifications	Not required for mixing, loading and application.
Certified Handler	Not required
Location Certificate	Not required
Signage Trigger Quantity (Schedule 3)	Not required
Emergency Response Plan (Schedule 5)	Not required
Secondary Containment (Schedule 16)	Not required
Tracking (Schedule 26)	Not required
Tolerable Exposure Level (TEL)	None set
Environmental Exposure Level (EEL)	None set
International Agreements	Not applicable
Other Information:	Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz).
ACVM Registration:	Exempt from registration

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS issued 13 January 2026

SDS supersedes N/A

Reason issued New product

Abbreviations

ADI	Acceptable Daily Intakes
CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC₅₀	Half maximal Effective Concentration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC₅₀	Median Lethal Concentration

LD₅₀	Median Lethal Dose
SDS	Safety Data Sheets
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

Disclaimer

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Sipcarn New Zealand Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Sipcarn representative or Sipcarn New Zealand Ltd at the contact details on page 1.

Sipcarn New Zealand Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet