SAFETY DATA SHEET

AMINO BOSS® MANGANESE

Section 1: Identification

Product identifier

Product Name **Amino Boss Manganese**

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Fertiliser.
Uses advised against No information available.

Details of manufacturer or importer

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 numbers

National Poison Centre: **0800 POISON (0800 764 766)**
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.

Section 2: Hazard identification

Hazardous substance according to Hazardous Substances (Hazards Classification) Notice 2020.

HSNO Substance Approval: HSR002571
HSNO Classifications: Specific target organ toxicity (repeated exposure) Category 1
Chronic aquatic toxicity Category 3

Label elements:

Pictograms:



Signal word: DANGER

Hazard Statements

May cause damage to organs through prolonged or repeated exposure
Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

Read label before use
Do not breathe mist, vapours or spray
Wash hands and exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Response

Get medical attention/advice if you feel unwell

Disposal

Dispose of contents/container in accordance with local regulations.

Section 3: Composition and information on ingredients

Chemical name	CAS No.	Weight (%w/v)
Manganese Amino Acid Chelate	-	10
Non-hazardous ingredients	Balance	

Section 4: First aid measures

Description of first aid measures

General advice For advice, or if you feel unwell, call the National Poison Centre, 0800 POISON (0800 764 766). If medical advice is needed, have product container or label at hand.

IF SWALLOWED: Contact a POISON CENTRE or doctor for advice if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Contact a POISON CENTRE or doctor 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. If eye irritation persists, get medical advice.

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 No information available.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: Firefighting measures

Suitable extinguishing media Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Solid water jet/stream may scatter and spread the fire.

Specific hazards arising from the chemical Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous combustion products Carbon oxides. Nitrogen oxides. Metal oxides.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions See Section 12 for additional Ecological Information

Methods for containment 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 Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Sweep up and shovel into suitable containers for disposal. Dispose of contaminated materials to approved landfill in accordance with local regulations.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage

Advice on safe handling Do not handle until all safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

General hygiene considerations Wear suitable gloves. Do not eat, drink or smoke when using this product.

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

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

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits No biological limits apply. However, Workplace Exposure Standard(s) for constituent(s):

Chemical name	Australia	New Zealand	ACGIH TLV
Manganese Amino Acid Chelate	-	-	TWA: 2 mg/m^3 inhalable particulate matter STEL: 6 mg/m^3 inhalable particulate matter
Chemical name	**European Union**	**United Kingdom**	**Germany DFG**
Manganese Amino Acid Chelate	-	-	TWA: 10 mg/m^3 Peak: 10 mg/m^3

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.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

These Workplace 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. These workplace 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 Showers
Eyewash stations
Use in well-ventilated area or outdoors

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.

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.

Thermal hazards No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Brown liquid
Odour	Slight
Odour threshold	No data available
pH	4.0 - 5.0
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	1.31 - 1.32
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

Section 10: Stability and reactivity

Reactivity	Stable.
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	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, storage in direct sunlight, incompatible materials
Incompatible materials	Strong oxidizing agents, strong acids, and strong bases.
Hazardous decomposition products	None known based on information supplied.
Fire Decomposition:	Carbon dioxide, carbon monoxide, nitrogen oxides, and other unspecified compounds.

Section 11: Toxicological information

Health hazard information

No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:

Inhalation:	May cause irritation.
Eye contact:	May cause irritation.
Skin contact:	May cause irritation.
Ingestion:	May cause gastrointestinal discomfort if consumed in large amounts.

Toxicological information

Acute toxicity:	Not classified.
Aspiration hazard:	No information available.
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	Not classified as reproductive toxicant.
Specific target organ toxicity	Causes damage to organs through prolonged or repeated exposure
Narcotic effects	Not classified as having narcotic effects.

Section 12: Ecological information

Ecotoxicity	This product is classified as hazardous to the aquatic environment with long-lasting effects (mixture rules).
Aquatic Toxicity	Aquatic chronic category 3
Breakdown in soil and groundwater:	No data available
Bioaccumulation:	No data available.
Partition coefficient (octanol/water):	Not applicable for manganese amino acid chelate
Soil mobility:	No data available
Ecotoxicity data:	No data for product.

Section 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.

Section 14: Transport information

Road and Rail Transport: Not classified as Dangerous Goods for transport by Road and Rail according to NZS 5433 Transport of Dangerous Goods on Land.

Marine Transport (IMO/IMDG): Not classified as a 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 a Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

Section 15: Regulatory information

HSNO status:	Hazardous substance according to Hazardous Substances (Classification) Notice 2020.
Approved substance number:	HSR002571; Fertilisers (Subsidiary Hazard) Group Standard 2020.
Hazardous classifications:	Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
HSNO controls:	Refer to controls on www.epa.govt.nz for complete wording for Controls.
Additional information:	Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)
International Agreements:	Not applicable
ACVM Registration:	Exempt from registration

Section 16: Other information

Date of preparation or last revision of SDS

SDS issued	20 October 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
ErC_{50}	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
LC_{50}	Median Lethal Concentration
LD_{50}	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 Sipcam 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 Sipcam representative or Sipcam New Zealand Ltd at the contact details on page 1.

Sipcam 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.

Amino Boss is a registered trademark of Sipcam New Zealand Ltd

End of Safety Data Sheet