SAFETY DATA SHEET

AMINO BOSS® LEGUME

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier

Product Name	Amino Boss Legume
Other means of identification	

Recommended use of the chemical and restrictions on use

Recommended use	Fertiliser
Uses advised against	No information available

Supplier Contact Details

Company Name:	Sipcam New Zealand Limited
Address:	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

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

Classified as a hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996 under the fertiliser subsidiary group standard HSR002571

GHS Classifications

Serious eye damage - Category 1
Reproductive toxicity - Category 2
Specific target organ toxicity(repeated exposure) - Category 2
Hazardous to the aquatic environment acute - Category 1
Hazardous to the aquatic environment chronic - Category 1

Label elements

Signal word: DANGER

Pictograms:



Hazard statements

Hazardous

Causes serious eye damage
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long-lasting effects.

Precautionary Statements

Prevention

Wear eye protection/face protection
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

	Wear protective gloves/protective clothing. Do not breathe mist/vapours/spray.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Collect spillage.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight
Boric acid	10043-35-3	< 1%
Cobalt sulphate	10124-43-3	< 1%
Zinc sulphate	7733-02-0	< 5%
Boric acid	10043-35-3	< 5%
Non-hazardous ingredients	Proprietary	Balance

4. FIRST AID MEASURES

Description of first aid measures

General advice	For advice, or if you feel unwell or are exposed or concerned, call the National Poison Centre, telephone 0800 POISON (0800 764 766). If medical advice is needed, have product container or label at hand.
IF SWALLOWED:	Rinse mouth with water and drink one to two glasses of water. Get medical attention if symptoms occur.
IF ON SKIN:	Wash with plenty of soap and water. Get medical attention if skin irritation develops and persists.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.
IF INHALED:	In case of accidental inhalation of vapours or decomposition products, remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media	Not combustible. Use extinguishing agent suitable for type of surrounding fire.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not walk through or touch spilled material. Use personal protective equipment as required.
For emergency responders	Clear area of all unprotected personnel. Use personal protection recommended in Section 8
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised people away.

Environmental Precautions

Environmental precautions	Avoid dispersal of spilled material and runoff contact with soil, waterways, drains. Inform the relevant authorities if the product has caused adverse impacts. See section 12 for further ecological information.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect in properly labelled drums or other suitable containers for disposal. After cleaning, flush away traces with water.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mists/vapours and contact with skin, eyes, and clothing.
General hygiene considerations.	Use suitable protective equipment as required. See section 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

Conditions for safe storage including any incompatibilities.

Storage conditions	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place out of direct sunlight. Use appropriate containment to prevent environmental contamination. Do not store in unlabelled containers. Avoid freezing.
Incompatible materials	Explosives (class 1), oxidising gases, oxidising liquids, oxidising solids, organic peroxides, strong acids, strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits	No value assigned for this specific material or ingredients by Work Safe New Zealand. Over exposure may exacerbate preexisting adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Appropriate Engineering controls

Engineering controls	Showers, eyewash stations, ventilation systems.

Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES



Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Lightweight 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	Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
Thermal hazards	No information available

9. PHYSICAL and CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No information available
Colour	Dark green / Brown
Odor	Slight
Odor threshold	No information available

Property	**Values**	**Remarks • Method**
pH (10% solution)	3.5	None known
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
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	None known
Vapor density	No data available	None known
Relative density	1.20 – 1.21	None known
Water solubility	Miscible in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known

Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Particle characteristics	No data available	None known

10. STABILITY and REACTIVITY

Reactivity

Reactivity — Non-reactive under normal conditions of use, storage and transport.

Chemical Stability

Stability — Stable under normal conditions.

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 does not occur.

Conditions to avoid

Conditions to avoid — Extreme temperatures and direct sunlight.

Incompatible materials

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

Hazardous decomposition products

Hazardous decomposition products — Carbon oxides. Nitrogen oxides. Mineral oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product 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	Breathing in vapour, mists or aerosols may produce respiratory irritation.
Eye contact	Causes serious eye damage.
Skin contact	May cause irritation.
Ingestion	May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large amounts.
Symptoms	No information available.

Numerical measures of toxicity - Product Information:

Product information — No information available

Component information

Chemical name	Oral LD50	Dermal LD50 (Rabbit)	Inhalation LC50
Cobalt sulphate	= 330 mg/kg (sheep)	-	-
Cobalt sulphate	= 125 mg/kg (rabbit)	-	-
Zinc sulphate	= 926 mg/kg (mouse)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation — May cause skin irritation.

Skin sensitiser	Not expected to be a skin sensitiser
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	Not expected to be a respiratory sensitiser
Germ cell mutagenicity	Not considered to be a mutagenic hazard
Carcinogenicity	Not considered to be carcinogenic. The table below indicates whether each agency has listed any ingredient as a carcinogen or suspected carcinogen.

Chemical name	New Zealand
Cobalt sulfate - 10124-43-3	Carc. 2

Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT - single exposure	Not expected to cause toxicity to a specific target organ
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not expected to be an aspirational hazard under normal open air conditions.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity: Classified as very toxic to aquatic life with long-lasting effects (mixture rules).The environmental impact of this product has not been fully investigated. Keep out of waterways

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Boric acid	-	LC50: =1020mg/L (72h, *Carassius auratus*)	-	EC50: 115 - 153mg/L (48h, *Daphnia magna*)
Cobalt sulphate	EC50: 0.4 - 72mg/L (72h, *Pseudokirchneriella subcapitata*)		-	
Copper sulphate	EC50: 0.005 mg/L (72h, *Thalassiosira pseudonana*)	LC50: 0.0028 mg/L (96h, *Pimephales promelas*)	-	

Persistence and degradability

Persistence and degradability: Not readily degradable

Bioaccumulative potential

Bioaccumulation: Bioaccumulative

Mobility

Mobility: Likely to be mobile in the environment due to its water solubility.

Partition coefficient Boric acid: -0.757

Other adverse effects

Other adverse effects: No information available.

13. DISOSAL CONSIDERATIONS

Waste treatment methods

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.

AGRECOVERY Rural Recycling Programme

See section 8 for more information

14. TRANSPORT INFORMATION

Road and Rail Transport:	Classified as Dangerous Goods for transport by Road and Rail according to NZS 5433 Transport of Dangerous Goods on Land.
Marine Transport (IMO/IMDG):	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):	Classified as a Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.
UN Number:	3082 (Environmentally hazardous substance, Liquid, N.O.S.)
Class	9
Packing group	III
Marine pollutant:	Yes

15. REGULATORY INFORMATION

Classified as a hazardous substance according to Hazardous Substances (Classification) Notice 2020 under fertiliser group standard.

HSNO approval number	HSR002571 Fertilisers, subsidiary hazard group standard 2020
Hazard classifications	Serious eye damage - Category 1 Reproductive toxicity - Category 2 Specific target organ toxicity(repeated exposure) - Category 2 Hazardous to the aquatic environment acute - Category 1 Hazardous to the aquatic environment chronic - Category 1
Qualifications	Not applicable
Certified Handler	Not required
Location Certificate	Not required
Signage Trigger Quantity (S: 3)	100 L
Emergency Response Plan (S: 5)	100 L
Secondary Containment (S: 16)	100 L
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
Poisons Schedule	No poisons schedule number allocated
Illicit Drug Precursors/Reagents	This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

International Inventories

AIIC	All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals.
NZIOC	All the constituents of this material are listed on the New Zealand Inventory of Industrial Chemicals.

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer - Not applicable
The Stockholm Convention on Persistent Organic Pollutants - Not applicable
The Rotterdam Convention - Not applicable

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS issued	19 November 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.

End of Safety Data Sheet