

# SAFETY DATA SHEET



Revision date: 24-Mar-2025

Revision Number 2.1

## Section 1: Identification

### Product identifier

**Product Name** Amino Boss Plant Performance Plus

**Product Code(s)** 000000063150

### Other means of identification

### Recommended use of the chemical and restrictions on use

**Recommended use** Nutritional additive.

**Uses advised against** No information available.

### Details of manufacturer or importer

#### Supplier

Sipcam Pacific Australia Pty. Ltd.  
ABN: 94 073 176 888  
Street Address: Level 1, 191 Malop Street  
Geelong, Victoria, 3220  
Australia

Telephone Number: +61 (0) 3 5223 3746 (business hours)

Facsimile: +61 (0) 3 5223 3756

Website: [www.sipcam.com.au](http://www.sipcam.com.au)

### Emergency telephone number

Emergency telephone number **1 800 033 111 (ALL 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

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).  
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.

### GHS Classification

<b>Acute toxicity - Oral</b>	Category 5
<b>Serious eye damage/eye irritation</b>	Category 1
<b>Reproductive toxicity</b>	Category 1B

### Label elements

Corrosion

Health hazard



**Signal word**  
DANGER

**Hazard statements**

H303 - May be harmful if swallowed

H318 - Causes serious eye damage

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

**Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/clothing and eye/face protection.

**Precautionary Statements - Response**

IF exposed or concerned: Call a POISON CENTER or doctor/physician if you feel unwell.

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 CENTER or doctor.

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**Other hazards which do not result in classification**

### Section 3: Composition and information on ingredients

Chemical name	CAS No.	Weight-%
Zinc sulfate	7733-02-0	< 10%
Copper (II) sulfate	7758-98-7	< 5%
Potassium ferric ethylenediaminetetraacetate	54959-35-2	< 5%
Boric acid	10043-35-3	< 5%
Sodium molybdate dihydrate	10102-40-6	< 1%
Non-hazardous ingredients	Proprietary	Balance

### Section 4: First aid measures

**Description of first aid measures**

**General advice**

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

**Inhalation**

Move to fresh air in case of accidental inhalation of vapors or decomposition products. Medical aid is necessary if symptoms appear to be an obvious consequence of inhalation.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention immediately if symptoms occur.

**Skin contact**

Wash with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Get medical attention if symptoms occur.

**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**

**Suitable extinguishing media** Not combustible, however, if material is involved in a fire use: Extinguishing media appropriate to surrounding fire conditions.

**Specific hazards arising from the chemical**

**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 actions for fire-fighters**

**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, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Avoid breathing vapors 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 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 containers for disposal. After cleaning, flush away traces with water.

**Section 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** Wear suitable gloves. Do not eat, drink or smoke when using this product.**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.**Section 8: Exposure controls and personal protection****Control parameters****Exposure Limits** No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Chemical name	Australia	New Zealand	ACGIH TLV
Copper (II) sulfate 7758-98-7	-	TWA: 0.01 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> Cu dust and mist
Potassium ferric ethylenediaminetetraacetate 54959-35-2	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> Fe
Boric acid 10043-35-3	-	-	TWA: 2 mg/m <sup>3</sup> inhalable particulate matter STEL: 6 mg/m <sup>3</sup> inhalable particulate matter
Sodium molybdate dihydrate 10102-40-6	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> Mo respirable particulate matter

Chemical name	European Union	United Kingdom	Germany DFG
Zinc sulfate 7733-02-0	-	-	TWA: 0.1 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup> Peak: 0.4 mg/m <sup>3</sup> Peak: 4 mg/m <sup>3</sup>
Copper (II) sulfate 7758-98-7	-	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup> Peak: 0.02 mg/m <sup>3</sup>
Potassium ferric ethylenediaminetetraacetate 54959-35-2	-	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	-
Boric acid 10043-35-3	-	-	TWA: 10 mg/m <sup>3</sup> Peak: 10 mg/m <sup>3</sup>
Sodium molybdate dihydrate 10102-40-6	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

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 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

<b>Engineering controls</b>	Showers Eyewash stations Ventilation systems.
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### Individual protection measures, such as personal protective equipment



<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear suitable protective clothing. Overalls.
<b>Hand protection</b>	Wear suitable gloves.
<b>Respiratory protection</b>	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.
<b>Environmental exposure controls</b>	No information available.
<b>Thermal hazards</b>	No information available.

## **Section 9: Physical and chemical properties**

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	No information available
<b>Color</b>	Dark green / Brown
<b>Odor</b>	Slight
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	6.5	
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	1.20	

Water solubility	No data available	
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

Other information**Section 10: Stability and reactivity**Reactivity

Reactivity No information available.

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 Extremes of temperature and direct sunlight.

Incompatible materials

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

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

**Section 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 May cause irritation.

Eye contact Causes serious eye irritation. May cause burns.

Skin contact May cause irritation.

Ingestion May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large amounts.

**Symptoms** No information available.

**Acute toxicity** .

**Numerical measures of toxicity - Product Information**

No information available

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc sulfate	= 1710 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Copper (II) sulfate	= 300 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Boric acid	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2.12 mg/L ( Rat ) 4 h

See section 16 for terms and abbreviations

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

**Skin corrosion/irritation** May cause skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation. Risk of serious damage to eyes.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. Not expected to be carcinogenic. Classification based on data available for ingredients.

Chemical name	Australia	European Union	IARC
Boric acid - 10043-35-3	-	-	Group 2A

**IARC (International Agency for Research on Cancer)**

Group 2A - Probably Carcinogenic to Humans

**Reproductive toxicity** Possible risk of impaired fertility.

Boric acid (10043-35-3)

Results	Reproductive toxicant
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**STOT - single exposure** No information available.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

## Section 12: Ecological information

### Ecotoxicity

#### Aquatic ecotoxicity

The environmental impact of this product has not been fully investigated. Avoid contaminating waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Zinc sulfate	EC50: =0.056mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )	LC50: =0.162mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 0.03 - 0.05mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 0.34 - 0.93mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 0.218 - 0.42mg/L (96h, <i>Pimephales promelas</i> ) LC50: =0.06mg/L (96h, <i>Pimephales promelas</i> ) LC50: 0.23 - 0.48mg/L (96h, <i>Pimephales promelas</i> ) LC50: 0.168 - 0.25mg/L (96h, <i>Pimephales promelas</i> ) LC50: =0.15mg/L (96h, <i>Cyprinus carpio</i> ) LC50: 16.85 - 27.18mg/L (96h, <i>Cyprinus carpio</i> ) LC50: 3 - 4.6mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: 3.55 - 6.32mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: =0.63mg/L (96h, <i>Poecilia reticulata</i> ) LC50: 49.23 - 64.16mg/L (96h, <i>Poecilia reticulata</i> ) LC50: 0.48 - 1.72mg/L (96h, <i>Poecilia reticulata</i> )	-	EC50: =0.75mg/L (48h, <i>Daphnia magna</i> ) EC50: 0.538 - 0.908mg/L (48h, <i>Daphnia magna</i> )
Copper (II) sulfate	-	LC50: =0.1mg/L (96h, <i>Oncorhynchus mykiss</i> )	-	EC50: 0.0058 - 0.0073mg/L (48h, <i>Daphnia magna</i> )
Boric acid	-	-	-	EC50: 115 - 153mg/L (48h, <i>Daphnia magna</i> )

#### Terrestrial ecotoxicity

There is no data for this product.

Chemical name	Earthworm	Avian	Honeybees
Zinc sulfate	Acute Toxicity: LC50 = 733 mg/kg ( <i>Eisenia foetida</i> 2 Days soil dry weight)	-	-



Chemical name	Earthworm	Avian	Honeybees
	Source: IUCLID		
Boric acid	-	Dietary Toxicity: LC50 > 5620 ppm (Anas platyrhynchos 5 Days) Source: IUCLID Dietary Toxicity: LC50 > 5620 ppm (Colinus virginianus 5 Days) Source: IUCLID	-

**Persistence and degradability**

**Persistence and degradability** No information available.

**Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

Chemical name	Partition coefficient
Boric acid	-1.09

**Mobility**

**Mobility** No information available.

**Other adverse effects**

**Other adverse effects** No information available.

**Section 13: Disposal considerations****Waste treatment methods**

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Dispose of contents/containers in accordance with local regulations.

See section 8 for more information

**Section 14: Transport information**

**ADG** 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.

**IATA** 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.

**IMDG** Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available

## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

##### Australia

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).  
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.

See section 8 for national exposure control parameters

#### **Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)**

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number** 5

#### **Australian Industrial Chemicals Introduction Scheme (AICIS)**

Contact supplier for inventory compliance status

Chemical name	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Zinc sulfate - 7733-02-0	Present	-
Copper (II) sulfate - 7758-98-7	Present	-
Potassium ferric ethylenediaminetetraacetate - 54959-35-2	Present	-
Boric acid - 10043-35-3	Present	-
Sodium molybdate dihydrate - 10102-40-6	Present	-

#### **Illicit Drug Precursors/Reagents**

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

#### **National pollutant inventory**

Subject to reporting requirement

Chemical name	National pollutant inventory
Zinc sulfate - 7733-02-0	10 tonne/yr Threshold category 1
Copper (II) sulfate - 7758-98-7	10 tonne/yr Threshold category 1 2000 tonne/yr Threshold category 2b 60000 MWH Threshold category 2b 20 MW Threshold category 2b
Boric acid - 10043-35-3	10 tonne/yr Threshold category 1

#### **International Inventories**

##### **AIIC**

All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals or are Australian Pesticides & Veterinary Medicines Authority (APVMA) approved active constituents.

##### **NZIoC**

Contact supplier for inventory compliance status.

##### **TSCA**

Contact supplier for inventory compliance status.

##### **DSL/NDSL**

Contact supplier for inventory compliance status.

##### **EINECS/ELINCS**

Contact supplier for inventory compliance status.

<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.

**Legend:****AIIC- Australian Inventory of Industrial Chemicals****NZIoC - New Zealand Inventory of Chemicals****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing Chemicals Inventory**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**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**Section 16: Other information**

<b>Reason(s) For Issue:</b>	Revised Primary SDS Change to Product Name Updated Formulation Update in Toxicological Information
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**Revision date:** 24-Mar-2025**Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate

LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AELG(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
Australian Industrial Chemicals Introduction Scheme (AICIS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**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 Pacific Australia Pty 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 Pacific Australia Pty Ltd at the contact details on page 1.**

**Sipcam Pacific Australia Pty 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**