

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity Micromax Plus
Alternate Names Not Applicable

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended Uses and Uses Advised Against Animal Feed Premix

1.3. Details of the supplier of the safety data sheet

Company Name Image Holdings Limited
 50 Central Park Drive
 Henderson
 Auckland 0610
 New Zealand

Emergency

24 hour Emergency Telephone No. National Poisons Information Centre: 0800 POISON [0800 764 766]
 Other Emergency Number: +64 21 934 058
 Transport Emergency: 111 - Tell operator what service is needed: Fire, Ambulance, Police.

Customer Service: Image Holdings Limited

+64 9 834 3783

Email Address

info@imageholdings.co.nz
 Website: www.imageholdings.co.nz

Section 2. Hazard identification of the product

2.1. Classification of the substance or mixture

Classification in accordance with GHS revision 7 and New Zealand EPA's Hazardous Substances and New Organisms (HSNO) and Worksafe's Health and Safety at Work Act (HSWA) regulations.

Acute Tox. 4;H302	Harmful if swallowed.
Eye Dam. 1;H318	Causes serious eye damage.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Resp. Sens. 1;H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 1B;H350	May cause cancer.
Repr. 1B;H360	May damage fertility or the unborn child.
Aquatic Acute 1;H400	Very toxic to aquatic life.
Aquatic Chronic 1;H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements



Danger

H302 Harmful if swallowed.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H350 May cause cancer.
 H360 May damage fertility or the unborn child.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 Contains Cobalt(ii) sulfate. May produce an allergic reaction.
 Ecotoxicity to soil environment.
 Ecotoxicity to terrestrial vertebrates.

[Prevention]

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves, eye protection, and face protection.
 P284 In case of inadequate ventilation, wear respiratory protection.

[Response]

P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.
 P302+352 IF ON SKIN: Wash with plenty of soap and water.
 P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+313 IF exposed or concerned: Get medical advice or attention.
 P310 Immediately call a POISON CENTER, doctor or physician.
 P330 Rinse mouth.
 P333+313 If skin irritation or a rash occurs: Get medical advice or attention.
 P342+311 If experiencing respiratory symptoms: Call a POISON CENTER, doctor or physician.
 P362+364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage.

[Storage]

P405 Store locked up.

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

2.3. Other hazards

This product contains no PBT/vPvB/vPvM chemicals.
 This product contains no endocrine disrupting chemicals.

Section 3. Composition/information on ingredients

If the product contains substances that present a hazard according to the WHS Regulations, they are listed below.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Zinc sulfate, monohydrate CAS Number: 7446-19-7	10 - 25	Acute Tox. 4;H302 Eye Dam. 1;H318 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	
Copper (II) sulfate pentahydrate (1:1:5) CAS Number: 7758-99-8	10 - 25	Acute Tox. 4;H302 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 Eye Dam. 1;H318 Acute M-Factor: 10	

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Cuprate(1-), diaqua(glycinato-KO)(sulfato(2-)-KO)-, Hydrogen CAS Number: 536974-53-5	5 - 10	Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 2;H319 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	
Copper Sulfate CAS Number: 7758-98-7	0.10 - 1.0	Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 Acute M-Factor: 10	
Cobalt(ii) sulfate CAS Number: 10026-24-1	0.10 - 1.0	Acute Tox. 4;H302 Skin Sens. 1;H317 Resp. Sens. 1;H334 Muta. 2;H341 Carc. 1B;H350 Repr. 1B;H360 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	

In accordance with the WHS Regulations, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

*PBT/vPvB - PBT, vPvB, or vPvM-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eye Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available.

Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

Treat symptomatically. See section 2 for further details.

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Eye Causes serious eye damage.

Skin May cause an allergic skin reaction. Causes mild skin irritation.

Ingestion Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.
Avoid breathing dust, fume, gas, mist, vapors, spray.

5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Section 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Sweep up or pick up.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

Section 7. Handling and storage**7.1. Precautions for safe handling**

Handle containers carefully to prevent damage and spillage.
See section 2 for further details. - [Prevention]

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information
See section 2 for further details. - [Storage]

7.3. Specific end use(s)

No available information

Section 8. Exposure controls / personal protection

8.1. Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
7446-19-7	Zinc sulfate, monohydrate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
7758-98-7	Copper Sulfate	OSHA	1 mg/m ³ (Dusts and mists (as Cu)), 0.1 mg/m ³ fume)
		ACGIH	No Established Limit
		NIOSH	No Established Limit
7758-99-8	Copper (II) sulfate pentahydrate (1:1:5)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	1 mg/m ³ (as Cu, except for Copper fume) (listed under copper compounds, (n.o.s))
10026-24-1	Cobalt(ii) sulfate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
536974-53-5	Cuprate(1-), diaqua(glycinato-KO)(sulfato(2-)-KO)-, Hydrogen	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

8.2. Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Protective safety glasses recommended
Skin	Avoid skin contact. Protective gloves recommended.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Color: No available information
Physical State	Powder
Odor	Characteristic
Odor threshold	No available information
pH	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	No available information
Flash Point	No available information
Evaporation rate (Ether = 1)	No available information
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Vapor pressure (Pa)	No available information
Vapor Density	No available information

Relative Density	No available information
Solubility in Water	No available information
Partition coefficient n-octanol/water (Log Kow)	No available information
Auto-ignition temperature	No available information
Decomposition temperature	No available information
Viscosity (cSt)	No available information
Oxidising properties	No available information
Explosive properties	No available information
Particle Characteristics	---

9.2. Other information

No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No available information

10.4. Conditions to avoid

Avoid high temperatures and contact with incompatible material

10.5. Incompatible materials

No available information

10.6. Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Zinc sulfate, monohydrate - (7446-19-7)	2,150.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
Copper Sulfate - (7758-98-7)	481.00, Rat - Category: 4	> 2,000.00, Rat - Category: NA	No data available.	No data available.	No data available.
Copper (II) sulfate pentahydrate (1:1:5) - (7758-99-8)	482.00, Rat - Category: 4	>2,000.00, Rat - Category: 5	No data available.	No data available.	No data available.
Cobalt(ii) sulfate - (10026-24-1)	No data available.	No data available.	No data available.	No data available.	No data available.
Cuprate(1-), diaqua(glycinato-KO)(sulfato(2-)-KO)-, Hydrogen - (536974-53-5)	No data available.	No data available.	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
7446-19-7	Zinc sulfate, monohydrate	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit

CAS No.	Ingredient	Source	Value
7758-98-7	Copper Sulfate	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
7758-99-8	Copper (II) sulfate pentahydrate (1:1:5)	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
10026-24-1	Cobalt(ii) sulfate	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No;
		ACGIH	No Established Limit
536974-53-5	Cuprate(1-), diaqua(glycinato-KO)(sulfato(2-)-KO)-, Hydrogen	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization	1	May cause an allergic skin reaction.
Carcinogenicity	1B	May cause cancer.
Reproductive toxicity	1B	May damage fertility or the unborn child.
STOT-repeated exposure	---	---

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

This product contains no endocrine disrupting chemicals.

Section 12. Ecological information

12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Zinc sulfate, monohydrate - (7446-19-7)	No data available.	No data available.	No data available.
Copper Sulfate - (7758-98-7)	0.20,	No data available.	No data available.
Copper (II) sulfate pentahydrate (1:1:5) - (7758-99-8)	1.10, Lepomis macrochiru	0.01, cladocera	0.03, Chlamydomonas reinhardtii
Cobalt(ii) sulfate - (10026-24-1)	No data available.	No data available.	No data available.
Cuprate(1-), diaqua(glycinato-KO)(sulfato(2-)-KO)-, Hydrogen - (536974-53-5)	No data available.	No data available.	No data available.

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

No available information

12.4. Mobility in soil

No available information

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

12.6 Endocrine disrupting properties

This product contains no endocrine disrupting chemicals.

12.7. Other adverse effects

No available information

Section 13. Disposal considerations**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

	ADR/RID	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN3077	UN3077	UN3077
14.2. UN proper shipping name	Environmentally hazardous substances, solid, n.o.s., (Copper Sulphate & Zinc Sulphate)	Environmentally hazardous substances, solid, n.o.s., (Copper Sulphate & Zinc Sulphate)	Environmentally hazardous substances, solid, n.o.s., (Copper Sulphate & Zinc Sulphate)
14.3. Transport hazard class(es)	Class:9 Sub Class:Not Applicable	Class:9 Sub Class:Not Applicable	Class:9 Sub Class:Not Applicable
14.4. Packing group	III	III	III
14.5. Environmental hazards	Marine Pollutant: Yes; (Copper (II) sulfate pentahydrate (1:1:5))		
14.6. Special precautions for user	No available information		
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not Applicable		

Section 15. Regulatory information

Classification in accordance with GHS revision 7 and New Zealand EPA's Hazardous Substances and New Organisms (HSNO) and Worksafe's Health and Safety at Work Act (HSWA) regulations.
HSNO Approval Number:HSR002625: N.O.S. (Acutely Toxic, Carcinogenic) Group Standard 2020

Section 16. Other information

Revision Date
Revision Number

20/3/2025
7743

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

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