


**Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER**

**Product Name:** BMX Minerals  
**Other Name[s]:** Metal Chelates  
**Proper Shipping Name:** BMX Minerals  
**Chemical Formula:** Composition  
**Product Code:** R-B1400  
**CAS Number:** n/a

**PRODUCT USE**

**Recommended Use:** Micronutrient

**SUPPLIER DETAILS**

**Company Name:** Metabolik  
**Address:** 50 Central Park Drive, Henderson, Auckland 0610, New Zealand  
**Telephone:** 0064 9 834 3783  
**Email:** [info@imageholdings.co.nz](mailto:info@imageholdings.co.nz)  
**Website:** [www.imageholdings.co.nz](http://www.imageholdings.co.nz)

**EMERGENCY TELEPHONE NUMBERS**

**National Poisons Information Centre:** 0800 POISON (0800 764 766)  
**Emergency Telephone Number:** **0800 764 766**  
**Other Emergency Numbers:** **0064 21 934 058**  
**Transport Emergency:** 111: Tell operator what service is needed: Fire, Ambulance, Police.  
 Please ensure that the limitations of this Safety Data Sheet are referred to as set out in Section 16: Other Information at the end of this document.

**Section 2: HAZARD IDENTIFICATION**
**CLASSIFICATION OF SUBSTANCE OR COMPOSITION**

**Transport Classification:** Not Classified as a Dangerous Goods according to NZS 5433:2012 Transport of Dangerous Goods on Land  
**Hazard Classifications:** Classified as hazardous according to criteria in the Hazardous Substances & New Organisms Act 2015  
**Approval Number:** HSR002571  
**Classification Determined by using GHS/HSNO Criteria:**  
**6.4A:** Substances that are irritating to the eye  
**6.8A:** Substances that are known or presumed human reproductive or developmental toxicants

**LABEL REQUIREMENTS**

**Signal Word:** DANGER



**Pictogram:**

**HAZARD STATEMENT[s]**

**H319:** Causes serious eye irritation.  
**H360:** May damage fertility or the unborn child.

**PRECAUTIONARY STATEMENT(s):**

**Prevention:**  
**P103:** Read label before use.  
**P201:** Obtain special instructions before use.  
**P202:** Do not handle until all safety precautions have been read and understood.  
**P264:** Wash hands thoroughly after handling.  
**P280:** Wear protective gloves/protective clothing/eye protection/face protection.



<b>Response:</b>	<b>P305+351+338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
	<b>P308+313:</b> If exposed: Call a POISON CENTER or doctor/physician.
	<b>P337+313:</b> If eye irritation persists get medical advice/attention.
<b>Storage:</b>	<b>P405:</b> Store locked up.
<b>Disposal:</b>	<b>P501:</b> Dispose of contents/container in accordance with local/regional/national/international regulation.
<b>Other Hazards:</b>	<b>Not known</b>

### Section 3: COMPOSITION INFORMATION

COMPONENT	CAS No.	PROPORTION	HAZARD CODES
Copper disodium EDTA	14025-15-1	>=10% - <15%	6.1D, 6.4A
Boron sodium Oxide, Tetrahydrate	12280-03-4	>=3% - <5%	6.8A
Balance of ingredients are non-hazardous or hazardous in less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitisers)		Balance	-

### Section 4: FIRST AID MEASURES

#### FIRST AID MEASURES

Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.

#### Inhalation:

##### If Inhalation of product occurs:

- Remove patient from area of exposure – avoid becoming a casualty.
- Remove contaminated clothing and loosen remaining clothing
- Allow patient to assume comfortable position and keep warm and rested.
- Provide emergency airway support if required
- If breathing is shallow or has stopped ensure airway is clear and apply resuscitation.
- **Urgently Seek medical help**

#### Ingestion:

##### If ingestion occurs:

- DO NOT induce vomiting.
- Clean mouth with Water and then drink plenty of water, seek medical attention.
- For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766) or Doctor
- Never give anything by mouth to an unconscious person.
- **Seek medical assistance immediately**

#### Skin:

##### If skin contact occurs:

- Remove all contaminated clothing immediately
- Wash affected area thoroughly with water
- **Seek immediate medical assistance if irritation occurs.**

#### Eye:

##### If this product comes in contact with eyes:

- Immediately hold eyelids open and flush the eye continuously with running water
- Continue flushing until advised to stop by Poisons Information Centre or a doctor, or for at least 15 minutes to prevent permanent injury
- Remove contact lenses if present and easy to do.
- **Seek medical assistance**

#### Advice to Doctor:

Treat symptomatically. Refer to National Poisons & Hazardous Chemicals Information Centre 0800 764 766

### Section 5: FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA

##### If material is involved in fire use:

- There is not restriction on type of media which may be used
- Use extinguishing media suitable for surrounding fire based on surrounding materials
- Water Fog or Water Spray
- Do not use water jets

#### SPECIFIC HAZARDS

##### Hazards of Combustion:

**Carbon Oxides, Nitrogen Oxides**

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## ADVICE TO FIREFIGHTERS

### Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard
- Wear self-contained breathing apparatus plus suitable protective clothing
- Prevent, spillage from entering drains and water courses
- Use firefighting procedures suitable for surrounding area

### Protective Equipment:

- Fire fighters should wear a positive pressure self-contained breathing apparatus [SCBA]
- protective firefighting clothing [includes firefighting helmet, coat, trousers, boots and gloves]
- chemical splash suit

### Fire/Explosion Hazard:

Decomposition may produce toxic fumes of: Carbon Oxides, Nitrogen Oxides

### Hazchem Code:

Not regulated

## Section 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear suitable protective clothing, **See section 8**

### ENVIRONMENTAL PRECAUTIONS

Do not allow container or product to enter drains, sewers, streams or ponds. If contamination occurs advise local emergency services **See Section 12**

### SPILLS & CONTAINMENT

#### Minor Spill

- Contain Spill
- Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.
- Avoid accidents, clean up immediately.
- Increase ventilation.
- Avoid walking through spilled product.
- Isolate the danger area.
- Use clean, non-sparking tools and equipment.
- Mechanically collect as much of the spill as possible
- Shut off all possible sources of ignition

#### Major Spill

- **Medium Hazard**
- Contain Spill
- CAUTION: Advise personnel in area / surrounding area
- Contact Emergency Services [111], inform them of location and nature of hazard
- Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.

### DISPOSAL

- Reuse if possible
- Spill on areas other than pavement, dirt or sand may be handled by removing the affected soils and placing into approved containers
- Transfer to suitable, labelled, corrosion-resistant containers and dispose of promptly as hazardous waste.
- Dispose of in accordance with local and national regulations

## Section 7: HANDLING AND STORAGE

### HANDLING PRECAUTIONS

#### Safe Handling

- Ensure an eye bath and safety shower are available and ready to use.
- Avoid Personal contact, including inhalation
- Wear protective clothing when risk of exposure occurs
- Use in well ventilated area
- Keep out of reach of children

**Certified Handler:** Not required

**Tracking:** Not required

**Record Keeping:** Not required

### STORAGE PRECAUTIONS

#### Suitable Container:

- **Store in manufacturers original packaging**

#### Safe Storage:

- Store in original containers
- Keep containers closed when not in use
- Store in a cool, dry, well ventilated place
- Keep out of direct sunlight.
- Store away from sources of heat or ignition.
- Check regularly for spills.

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- Storage Incompatibility:**
- Store away from incompatible materials, foodstuff and containers
- Other Information:**
- Avoid humidity, strong bases, oxidising agents
  - Dispose of in accordance with regulatory authority, local and national guidelines
  - Always read label before use.

### Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

#### CONTROL PARAMETERS

##### Ingredient Data:

Source	Ingredient	TWA	STEL	Notes
NZ Workplace Exposure Standards [WES]	Born Sodium Oxide, Tetrahydrate	2 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	Inhalable fraction
	Manganese disodium EDTA Trihydrate	1mg/m <sup>3</sup>		Dust
Particulates not otherwise classified		10mg/m <sup>3</sup>	Not Available	Inspirable dust
Particulates not otherwise classified		3mg/m <sup>3</sup>	Not Available	Dust

#### EXPOSURE CONTROLS

##### Engineering Controls:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection

##### Protective Equipment:



##### Eye & Face Protection:

- Chemical goggles
- Restrict use of contact lenses

##### Skin Protection:

- Wear chemical resistant gloves
- Always wash hands before eating, drinking or using facilities
- Protective foot wear

##### Respiratory Protection:

- Particulate. [AS/NZ 1716, EN 143:2000 & 149:001, ANSI Z88 or national equivalent]

##### Body Protection:

- Overalls
- Barrier cream

##### Other Protection:

- Eyewash Unit

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Green Free flow granules	<b>Bulk Density :</b>	650 – 900 kg/m <sup>3</sup>
<b>Physical State:</b>	Solid	<b>Relative Density [Water=1]:</b>	n/a
<b>Odour:</b>	Odourless	<b>Auto Ignition Temp [°C]:</b>	> 530°C
<b>Odour Threshold:</b>	n/a	<b>Decomposition Temp:</b>	n/a
<b>pH [1% Solution]:</b>	5 - 9	<b>Viscosity [cSt]:</b>	n/a
<b>Melting Point / Freezing Point:</b>	n/a	<b>Molecular Weight [g/mol]:</b>	n/a
<b>Initial Boiling Point / Range:</b>	n/a	<b>Taste:</b>	n/a
<b>Flash Point [°C]:</b>	n/a	<b>Explosive Properties:</b>	Not explosive
<b>Evaporation Rate:</b>	n/a	<b>Oxidising Properties:</b>	n/a
<b>Flammability:</b>	Not readily ignited	<b>Surface Tension [mN/m]:</b>	n/a
<b>Upper Explosive Limit [%]:</b>	n/a	<b>Volatile Component [%vol]:</b>	n/a
<b>Lower Explosive Limit [%]:</b>	n/a	<b>Gas Group:</b>	n/a
<b>Vapour Pressure [hPa]:</b>	<0.0000001 hPa	<b>VOC g/l:</b>	n/a
<b>Solubility in water [g/l]:</b>	150 g/l approx.		

### Section 10: STABILITY AND REACTIVITY

- Stability:** Product is stable under normal conditions of use, storage and temperature
- Hazardous Reactions:** Not an explosion risk, avoid build-up of dust
- Conditions to avoid:** Extreme temperatures, dust formation, dust deposition, humidity
- Incompatible Materials:** Strong bases, Oxidising agents

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### Hazardous Decomposition Products

No hazardous decomposition products if stored and handled as prescribed/ indicated





## Section 11: TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL EFFECTS

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

<b>Ingestion:</b>	May cause damage to testes after repeated ingestion in high doses.		
<b>Inhalation:</b>	Non irritant		
<b>Skin:</b>	Non irritant		
<b>Eye:</b>	May cause serious eye irritation		
<b>Chronic Effects:</b>	Boron sodium oxide, tetrahydrate caused malformations / developmental toxicity in laboratory animals		
<b>Acute Toxicity:</b>	✘	<b>Carcinogenic:</b>	✘
<b>Skin Irritation/ Corrosion:</b>	✘	<b>Reproductive Effects:</b>	✔
<b>Serious Eye Damage/Irritation:</b>	✔	<b>Specific Target Organ – SE:</b>	✘
<b>Respiratory / Skin Sensitiser:</b>	✘	<b>Specific Target Organ – RE:</b>	✘
<b>Mutagenic:</b>	✘	<b>Aspiration Hazard:</b>	✘

Legend:   
 ☐ Data not available to make classification   
 ✔ Data Available to make classification   
 ✘ Data available but does not fill criteria for classification

### TOXICOLOGICAL DATA:

No LD50 data available for the product. However, Exposure Standard(s) for constituent(s):

Product	Toxicity	Irritation
BMX Minerals	Oral [Rat] LD50 >5000 mg/kg	Unknown
	Inhalation [Rat] LC50 >5mg/l	
	Dermal [Rat] LD50 >5000 mg/kg	

## Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Avoid contaminating waterways
<b>Bioaccumulation</b>	Significant accumulation in organisms is not to be expected

### ECOLOGICAL DATA:

Product	Endpoint	Duration [hr]	Species	Value
BMX Minerals	LC50	96	Fish	>100 mg/l

### DEGRADABILITY

Product	Degradability Water/Soil
BMX Minerals	Not readily biodegradable

## Section 13: DISPOSAL INFORMATION

**Disposal:** Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations. Empty containers must be either rendered totally unusable, or if to be recycled for use, decontaminated by rinsing thoroughly with water. Rinsing water needs to be disposed of carefully

The following controls should be considered:

- Reduction
- Reuse
- Recycle
- Disposal

Disposal of materials or packaging must be carried out in accordance with Hazardous Substances Regulations 2001



## Section 14: TRANSPORT INFORMATION

### LABELLING REQUIREMENTS

**Label:** Not applicable  
**Marine Pollutant:** No  
**Hazchem:** Not regulated

**LAND / AIR / SEA TRANSPORT** Not regulated for transport of Dangerous Goods [UN]

## Section 15: REGULATORY INFORMATION

### REGULATIONS

HSR Number	Group Standard
HSR002571	Fertilisers [Subsidiary Hazard] Group Standard 2017

### LOCATION TEST CERTIFICATE

Hazard Class	Closed Container Controls	Open Container Controls
Not required	Not required	Not required

### TRACKING REQUIREMENTS

Not applicable

## Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown at the bottom right of page, and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.

