

Product Name: Brevis

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SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:
Chemical name of active:

Product Use:

Product U

Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd Address: Level 1/93 Bolt Road Tahunanui, Nelson 7011

Telephone: +64 3 543 8275 Email: nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre)

0800 734 607 (24hr Emergency Response)

Date of SDS Preparation: 21 July 2023

Section 2. Hazards Identification

This substance is hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020

HSNO Approval No: HSR101178

Pictograms







Signal Word: Danger

HSNO Classification	Hazard Code	Hazard Statement
Acute oral toxicity Category 4	H302	Harmful if swallowed.
Serious eye damage Category 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment chronic Category 2	H411	Toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H422	Toxic to the soil environment.
Hazardous to terrestrial vertebrates	H433	Harmful to terrestrial vertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label and follow all instructions.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid unintended release into the environment.
P280	Wear eye protection/face protection

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Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P301 + P312 +	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or
P330	doctor/physician if you feel unwell.
P305 + P310 +	IF IN EYES: Immediately call a POISON CENTER or doctor/physician.
P351 + P338	Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	Store in the original, unopened container in a cool, dry, place, out of direct sunlight and away from stockfeed or foodstuffs. As a substance with Aquatic Ecotoxicity Classifications, storage of BREVIS must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed.

Disposal Code	Disposal Statement
P501	Refer to Section 13

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Calcium diformate	70-90	544-17-2
Metamitron: 4-amino-3-methyl-6- phenyl-1,2,4-triazin-5-one	10-<25	41394-05-2

Section 4. First Aid Measures

Routes of Exposure:

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/physician.

If on Skin Wash with plenty of soap and water. If skin irritation: get medical

advice/attention.

If Swallowed Rinse mouth. Give copious water to drink. Call a POISON CENTER or

doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Harmful if swallowed.

Skin: Not applicable. **Inhalation:** Not applicable.

Eyes: Causes severe eye damage.

Chronic: Not applicable.

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Section 5.	Fire Fighting Measures	
Hazard Type	Non-Flammable.	
Hazards from	Oxides of carbon	
combustion	Oxides of nitrogen	
products	Toxic gases	
Suitable	Water spray, foam, dry extinguishing media, carbon dioxide	
Extinguishing		
media		

Wear full protection if necessary. Do not breathe fumes. Protective

respirator with independent air supply according to size of the fire.

Section 6.	Accidental Release Measures	

Wear full protective clothing as detailed in Section 8. Evacuate area from unnecessary personnel.

Environmental precautions

Precautions for

firefighters and

HAZCHEM CODE

clothing

special protective

If leakage occurs, dam up. Resolve leaks if this is possible without risk. Prevent surface and ground water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.

Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13. Fill the absorbed material into lockable containers. Clean soiled bottles immediately.

Section 7. Handling and Storage

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Precautions for Handling:

- Read label before use.
- Ensure good ventilation.
- Avoid build-up of dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid unintended release into the environment.
- Wear protective clothing.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Store product closed and only in original packaging.
- Not to be stored in gangways or stairwells.
- Under all circumstances prevent penetration into the soil.
- Store at room temperature.
- Store in a dry place.
- As a substance with Aquatic Ecotoxicity Classifications, storage of BREVIS must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed.

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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m3 ppm mg/m3

None of the ingredients have workplace exposure limits listed on WES.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Personal Protection Equipment





Eyes	Tight fitting protective goggles with side protection (EN166). If applicable face protection (EN166).
Hands and Skin	Universal protective gloves (plant protection). Minimum layer thickness in mm = 0.5. Permeation time in minutes = 120. Protective working garments (eg safety shoes and long sleeved protective garments) should be worn.
Respiratory	Normally not necessary. If the general dust limit is exceeded, breathing masks with fine dust filters are necessary (EN143), code colour white. If applicable filter P2 (EN143), code colour white.

Section 9 Physical and Chemical Properties

Appearance	Cream, white granulate solid
Odour	Slightly characteristic
Odour Threshold	Not applicable
рН	7 (1% CIPAC MT 75.3)
Boiling Point	Not applicable
Melting Point	Not applicable
Flash Point	Not applicable
Flammability	Not highly flammable
Upper and Lower	Not applicable
Exposure Limits	
Vapour Pressure	Not applicable
Bulk Density	719 g/l (CIPAC MT186, (pour density)
Bulk Density	757 g/l (CIPAC MT186 (tap density)
Relative Density	Not applicable
Solubilities	Not determined
Partition Coefficient:	0.85 (21°C OECD 117 (n-octanol/water)
Auto-ignition	396°C

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Temperature	
Viscosity, dynamic	Not applicable
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Strong heat and moisture.
Incompatible Materials	Strong alkalis, oxidizing substances and strong acids.
Hazardous Decomposition	No hazardous decomposition products if stored and handled as
Products	prescribed/indicated.

Section 11 **Toxicological Information**

Acute Effects:

Swallowed	Harmful if swallowed	
Dermal	Not applicable	
Inhalation	Not applicable	
Eye	Corrosive to ocular tissue	
Skin	Not applicable	

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Study	Result	Classification/Comments
Acute Oral Toxicity, Rat	LD ₅₀ > 300 - < 2000 mg/kg bw	GHS Category 4 / S6 Poison
Acute Dermal Toxicity, Rat	LD ₅₀ > 2000 mg/kg bw	GHS Category 5 (unclassified) / S5
		Poison
Acute Inhalation Toxicity, Rat	LC ₅₀ > 5.1 mg/L	GHS Category 5 / S5 Poison
Acute Skin Irritation/Corrosion,	Not irritating	GHS Category 5 (unclassified) / No
Rabbit	_	poisons schedule triggered
In vitro Acute Eye Irritation,	Not irritating	GHS Category 5 (unclassified) / No
Chicken		poisons schedule triggered
LLNA (Skin Sensitisation),	Non-sensitiser	
Mouse		

Section 12. Ecotoxicological Information

Brevis 150SG			
Toxicity/effect	Endpoint / Time/ Value / Unit / Organism	Test Method	Notes
Toxicity to fish	LC50 (Oncorhynchus mykiss) =96hr >100mg/l	OECD203	
Toxicity to daphnia	EC50 (daphnia magna) = 48h >100mg/l	OECD202	
Toxicity to algae	ErC50 (Psuedokirchnerie lla subcapitata = 72h >5.6mg/l	OECD201	
Toxicity to algae	EyC50 (Psuedokirchnerie lla subcapitata = 72h >1.6mg/l		

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Persistence and degradability			n.d.a
Mobility in soil			n.d.a
Results of PBT and vPvB assessment			n.d.a
Other adverse effects			n.d.a
Other organisms	ErC50(Lemna gibba) = 72h 3.05mg/l	OECD221	
Other organisms	EyC50(Lemna gibba) = 72h 2.82mg/l	OECD221	

Section 13. Disposal Considerations

Disposal Method: Dispose of this product only by using according to the label or at an approved landfill.

Container Disposal: Triple rinse container and add rinsate to spray tank. Empty containers and product should not be burnt. Dispose of container in a suitable landfill or take to an Agrecovery collection site. Do not use container for any other purpose.



Precautions: Do not allow product to enter waterways.

Disposal methods to avoid: Do not burn product or container.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433



Road and Rail Transport

UN No: 3077 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (METAMITRON)

Air Transport

UN No: 3077 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (METAMITRON)

Marine Transport

UN No: 3077 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (METAMITRON)

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Special Provisions:

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020

HSNO Approval Code: HSR101178

HSNO Classification: Acute oral toxicity Category 4, Serious eye damage Category 1, Hazardous to the aquatic environment chronic Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates.

HSW (HS) Regulations 2017 and	Trigger Quantity
EPA Notices	
Certified Handler	Not Required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000 L
Emergency Response Plan	1000 L
Secondary Containment	1000 L
HSNO Additional Controls (Restric	tions of use)
Restrictions of Use	 This substance must be applied via ground-based methods only This substance must not be applied at rates exceeding 330 g metamitron/ha, twice per year, with a minimum interval of five days between application A buffer zone of 5 m between the application area and any downwind area containing non-target plants must be observed when applying this substance. The person in charge of areas treated with this substance must ensure that no person works in contact with the trees treated with the substance until the end of the 3 day re-entry interval.
Hazardous Property Controls Notic	ce 2017
HPC Notice Part 1	Hazardous Property Controls preliminary provisions
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart A	Substances that are hazardous to the environment: Site and storage controls
HPC Notice Part 4 Subpart B	Use of substances that are hazardous to the environment
HPC Notice Part 4 Clause 47	Equipment for environmentally hazardous substances must be appropriate
HPC Notice Part 4 Clause 48	Record of application of agrichemicals
HPC Notice Part 4 Clause 52	Agrichemicals that are hazardous to the aquatic environment must not be applied to water
HPC Notice Part 4 Subpart C	Qualifications required for the application of substances that are hazardous to the environment
ACVM Act and Regulations	
Registered pursuant to the ACVM Act 1997, See www.foodsafety.govt.nz for registration conditions	No. P009397
For all further controls	Refer to EPA website (<u>www.epa.govt.nz</u>) for controls document - HSR101178

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Section 16 Other Information

Glossary

ACVM Agricultural Compounds and Veterinary Medicines Act 1997.

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority.

HSNO Hazardous Substances and New Organisms Act 1996.

HSW Health and Safety at Work Act 2015.

HSW (HS) Regulations Health and Safety at Work (Hazardous Substances) Regulations

2017.

LC50 Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD50 Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.
TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level.
WES Workplace Exposure Limit.

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2012

5. HSW (Hazardous Substances) Regulations 2017

Disclaimer:

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