



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Ferrabait**
Active ingredient: Elemental Iron
Product Use: Molluscicide for use as described on the product label.
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd
Address: Level 1/93 Bolt Road
Tahunanui, Nelson
Telephone: +64 3 543 8275
E-mail: nzorders@adama.com

Emergency Telephone: **0800 764 766 (National Poison Centre)**
0800 734 607 (24hr Emergency Response)

Date of SDS Preparation: 6 September 2024

Section 2. Hazards Identification

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

HSNO Approval No: HSR101420

Pictograms: None

Signal Word: None

HSNO Classification	Hazard Code	Hazard Statement
Designed for Biocidal Action	N/A	Designed for biocidal action.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P280	Wear gloves when handling.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if exposed and you feel unwell.

Storage Code	Storage Statement
None	None

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Iron powder	1	7439-89-6
Ethylenediaminetetraacetic acid	3 - 5	60-00-4
Other Non-Hazardous Ingredients	Balance	NA

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs, get medical advice/attention.
If Swallowed	Rinse mouth. Drink plenty of water. If symptoms persist, get medical advice/attention.
If Inhaled	Remove person to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms: None known

Section 5. Fire Fighting Measures

Hazard Type	Not Combustible. There is little risk of an explosion from this product under normal circumstances if it is involved in a fire.
Hazards from combustion products	No specific hazard known.
Suitable Extinguishing media	In case of fire, use carbon dioxide, dry chemical, foam, water fog. Contain spillage. Do not allow to enter waterways.
Precautions for firefighters and special protective clothing	If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.
HAZCHEM CODE	1S

Section 6. Accidental Release Measures

Wear protective clothing as detailed in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Dispose as per Local Regulations in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Wash hands thoroughly after handling.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep container tightly closed in a dry and well-ventilated place.
- Keep away from children.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
None applicable				

Personal Protection Equipment

Eyes	Protective glasses or goggles should be worn when this product is being used.
Hands and Skin	Prevent skin contact by wearing impervious gloves. Gloves: PVC, nitrile, or rubber.
Respiratory	Usually, no respirator is necessary when using this product.

Section 9 Physical and Chemical Properties

Appearance	Blue granules
Odour	Weak characteristic
Odour Threshold	Not applicable
pH	4 – 5 (1% solution)
Boiling Point	No data available
Melting Point	No data available
Freezing Point	No data available
Flash Point	Not applicable
Flammability	Not highly flammable (EEC A.10)
Upper and Lower Exposure Limits	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Specific Gravity	Not applicable
Bulk density	0.8 g/ml
Solubilities	No data available
Partition Coefficient:	Not applicable
Auto-ignition Temperature	>416 (EEC A.16)
Decomposition Temperature	Not applicable
Kinematic Viscosity	Not applicable
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
Incompatible Materials	No information available.
Hazardous Decomposition Products	None under normal use conditions.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. Oral LD50 > 5000 mg/kg
Dermal	Not applicable.
Inhalation	Not applicable. Inhalation LC50 = 38 mg/l/4hr
Skin	Non-irritation to the skin – Rabbit (OECD 404)
Eye	Non-irritating to the eye – Rabbit (OECD 405)
Respiratory/skin sensitiser	Not a skin sensitiser – Mouse (OECD 442B)

Chronic Effects:

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

Section 12. Ecotoxicological Information

Aquatic toxicity

Acute toxicity	Values	Species	Method
Fish 96hr LC50 mg/L	>100	Oncorhynchus mykiss	OECD 203
Crustacea 48hr EC50 mg/L	>100	Daphnia magna	OECD 202
Algae 72hr EC50 mg/L	>100	D. Subspicatus	OECD 201

Terrestrial Toxicity

Birds Oral LD509 mg/kg No data available

Bees Oral LD50 µg/bee No data available

Biodegradation Not readily biodegradable

Bioconcentration potential No data available

Mobility in soil No data available

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Section 13. Disposal Considerations

Disposal Method: Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers before puncturing and offering for recycling or landfill.



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 not classified as a Dangerous Good for transport in NZ; NZS 5433

Section 15 Regulatory Information

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

HSNO Approval Code: HSR101045

HSNO Classification: Designed for biocidal action.

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	Not required
Fire Extinguishers (Schedule 4)	Not required
Emergency Response Plan (Schedule 5)	Not required
Secondary Containment (Schedule 5)	Not required
Tracking (Schedule 26)	Not required
HSNO Section 77A Additional Controls	
Application Method	The substance must be applied using ground-based methods only
Hazardous Property Controls Notice 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 50(1)	The maximum application rate of this substance is 0.08 kg active ingredient/ha, which corresponds to 8 kg formulation/ha.
ACVM Act and Regulations	
ACVM Approval No	P009733
See www.foodsafety.govt.nz for registration conditions.	

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
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer:

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