

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: Performa Extracta Beta III

Substance: suspension concentrate of Metamitron, Phenmedipham and

Ethofumesate

Chemical name of active ing: IUPAC Name:

Metamitron: 4-amino-4,5-dihydro-3-methyl-6-phenyl-

1,2,4-triazin-5-one

Phenmedipham: methyl 3-(3-methylcarbaniloyloxy)

carbanilate

Ethofumesate: (RS)-2-ethoxy-2,3-dihydro-3,3-dimethylbenzofuran-5-yl methanesulfonate

Product Use: Agricultural herbicide Restriction of Use: Refer to Section 15

New Zealand Supplier: Wholesale Seeds Limited

Address: 5 Bryant Street, Ashburton, New Zealand

Telephone No: 03 307 9260

Emergency No: 0800 CHEMCALL (0800243 622)

Manufacturer: Danken New Zealand Ltd

Address: P.O. Box 16194

Hornby

Christchurch, 8441

Telephone: 0800 326 536

Date of SDS Preparation: 27 August 2024

Section 2. Hazards Identification

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

EPA Approval No: HSR101136

Pictograms





Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Specific target organ toxicity (repeated exposure) Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure
Hazardous to the aquatic environment chronic Cat. 2	H411	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms		Hazardous to soil organisms

Prevention Code	Prevention Statement
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Response Code	Response Statement
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	Keep out of reach of children. Store in the original container, tightly closed, in a locked cool, dry and well-ventilated area away from feed or foodstuffs. Avoid storage at temperatures below 5°C and above 35°C. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing 100 L or more are subject to signage, secondary containment and an emergency response plan.
L	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	CAS NUMBER.	Content % w/w
Ethofumesate	26225-79-6	5
Metamitron	41394-05-2	15
Phenmedipham	13684-63-4	5
Non hazardous	Proprietary	Balance

Section 4.	First Aid Measures
SCCLIOII T.	i ii st Aid ricasai cs

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. If eye irritation persists:

Get medical advice.

If on Skin Wash off skin immediately with soap and plenty of water for 15 to 20

minutes. If skin irritation occurs: Get medical advice/attention.

If Swallowed Wash out mouth thoroughly with water. Do not induce vomiting unless told to do so by a poison control center or doctor. Make every effort to prevent

vomit from entering the lungs by careful placement of the patient. Never give anything by mouth to an unconscious person. 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. Apply artificial respiration

if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: Harmful if swallowed.

Notes to Doctor: Poisoning symptoms in laboratory animals were non-specific. There is no

specific antidote available. Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable.
Hazards from products	Oxides of sulphur, nitrogen and carbon
Suitable Extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Precautions for firefighters and special protective clothing	Wear protective clothing and self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Wear personal protective equipment detailed in Section 8. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing vapours and mist.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Dispose of in compliance with local and/or national regulations or as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Avoid contact with eyes and skin.
- When preparing spray and using the prepared spray wear: cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length PVC gloves. If using a hand directed sprayer, wear, in addition: waterproof trousers, boots.
- After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- · Keep out of reach of children.
- Store in the closed, original container in a cool, well ventilated area.
- DO NOT store for prolonged periods in direct sunlight.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

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. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.

Personal Protection Equipment







Eyes	Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.
Hands	The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when handling this product.
Skin	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
General	Wash hands before breaks and at the end of workday.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	White
Odour	Not available
Odour Threshold	Not available
pH	5.5-7.5
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	Approximately 1.06
Water Solubility	Dispersible with water.
Partition Coefficient:	Not applicable
Auto-ignition	Not available
Temperature	

Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous	Not available
reactions	
Conditions to Avoid	Moisture, high temperature, direct sunlight.
Incompatible Materials	Strong acids or bases.
Hazardous Decomposition	Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.
Products	

Section 11 Toxicological Information

Acute Effects:

Materialization Apple and I DEO for note a 2000 miles a 4450 live a 4000		
Metamitron: Acute oral LD50 for rats c. 2000, mice c. 1450, dogs >1000		
mg/kg.		
Ethofumesate: Acute oral LD50 for rats and mice >5000 mg/kg.		
Phenmedipham: Acute oral LD50 for rats and mice >8000, guinea pigs and		
dogs >4000 mg/kg.		
Not triggered as hazardous.		
Metamitron: Acute percutaneous LD50 for rats >4000 mg/kg.		
Ethofumesate: Acute percutaneous LD50 for rats >2000 mg/kg		
Phenmedipham: Acute percutaneous LD50 for rabbits 1000, rats 2500		
mg/kg.		
Not triggered as hazardous.		
Metamitron: LC50 (4 h) for rats >0.33 mg/l air (aerosol).		
Ethofumesate: LC50 (4 h) for rats >3.97 mg/l air.		
Phenmedipham: LC50 (4 h) for rats >7.0 mg/l.		
Not triggered as hazardous. LC ₅₀ (4 h) for male and female rats >5.1 mg/l		
air.		
Metamitron: Not a eye irritant (rabbits).		
Ethofumesate: Not a eye irritant (rabbits).		
Phenmedipham: Not a eye irritant (rabbits).		
Not triggered as hazardous. Not a eye irritant (rabbits).		
Metamitron: Not a skin irritant (rabbits).		
Ethofumesate: Not a skin irritant (rabbits).		
Phenmedipham: Not a skin irritant (rabbits).		
Not triggered as hazardous. Not a skin irritant (rabbits).		
Metamitron: Not a skin sensitiser (guinea pigs).		
Ethofumesate: Not a skin sensitiser (guinea pigs).		
Phenmedipham: Not a skin sensitiser (guinea pigs).		
Not triggered as hazardous. Not a skin sensitiser (guinea pigs).		

Chronic Effects:

Carcinogenicity	Not triggered as hazardous.
Reproductive	Not triggered as hazardous.
Toxicity	
Teratogenic Effects	Not triggered as hazardous.
Germ Cell	Not triggered as hazardous.
Mutagenicity	
Aspiration	Not triggered as hazardous.
STOT/SE	Not triggered as hazardous.

STOT/RE	Not triggered as hazardous.
SIUI/KE	i Not triggered as nazardous.

^{*} There is no data available for the formulation type, so the technical information is listed for the reference.

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available

Eco Toxicity (ePM):

Metamitron:

Birds Acute oral LD₅₀ for Japanese quail 1875–1930 mg/kg. **Fish** LC₅₀ (96 h) for golden orfe 443, rainbow trout 326 mg/l.

Daphnia LC₅₀ (48 h) 101.7–206 mg/l.

Algae ErC₅₀ for Scenedesmus subspicatus 0.22 mg/l.

Bees Not toxic to bees.

Worms LC₅₀ for Eisenia foetida >1000 mg/kg dry soil.

Ethofumesate:

Birds Acute oral LD₅₀ for mallard ducks >3552, bobwhite quail >8743 mg/kg. Dietary LC₅₀ (8 d) for mallard ducks >1082, bobwhite quail >839 mg/kg b.w. daily.

Fish LC₅₀ (96 h) for rainbow trout 11.91–20.2, bluegill sunfish 12.37–21.2, mirror carp 10.92 mg/l.

Daphnia EC₅₀ (48 h) 13.52–22.0 mg/l.

Algae EC₅₀ 3.9 mg/l.

Other aquatic spp. EC₅₀ (growth) (96 h) for *Crassostrea virginica* (eastern oysters) 1.7 mg/l; LC₅₀ (96 h) for *Mysidopsis bahia* (mysid shrimps) 5.4 mg/l.

Bees LC₅₀ (contact and oral) >50 μg/bee.

Worms LC₅₀ 134 mg/kg soil.

Other beneficial spp. LD₅₀ for *Aleochara bilineata* >1250, *Poecilus cupreus* and *Chrysoperla carnea* >2000 g/ha.

Phenmedipham:

Birds Acute oral LD₅₀ for chickens >2500, mallard ducks >2100 mg/kg. Dietary LC₅₀ (8 d) for mallard ducks and bobwhite quail >6000 mg/kg diet.

Fish LC₅₀ (96 h) for rainbow trout 1.4–3.0, bluegill sunfish 3.98 mg/l. LC₅₀ (96 h) for harlequin fish 16.5 mg/l (15.9% EC formulation).

Daphnia LC₅₀ (72 h) 3.8 mg/l.

Algae IC₅₀ (96 h) 0.13 mg/l.

Bees Not toxic to bees; LD₅₀ (oral) >23 μg/bee; (contact) 50 μg/bee.

Worms EC₅₀ (14 d) >156 mg/kg soil.

Do not allow to enter drains or water courses.

Section 13. Disposal Considerations

Disposal Method:

Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection paint. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of washings, contaminated materials, used absorbents and other waste materials as

directed by local regulations.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021



Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Metamitron 150g/L + Phenmedipham 50g/L + Ethofumesate 50g/L SC)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5kg/L, 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 classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR101136

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use:	Use as for intended use.
ACVM Registration No.	P10247

Section 16 Other Information

Glossary

Cat Category

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

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

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.

OSHA American Occupational Safety and Health Administration.

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 April 2022 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

Issue Date: 27 August 2024 Review Date: 27 August 2024