

Safety Data Sheet

Replace

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Replace
Recommended Use:	Herbicide For post emergence weed control in Red beet, Fodder beet, Sugar beet and Mangolds
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency:	IN AN EMERGENCY, DIAL 111 – FIRE or POLICE
Date of SDS Preparation:	31 May 2022

Section 2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR101345

Pictograms



Toxic



Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1D (dermal)	H312	Harmful in contact with skin.	Acute Tox. 4
6.1D (inh)	H332	Harmful if inhaled.	Acute Tox. 4
9.1A	H400	Very toxic to aquatic life.	Aquatic Acute 1
9.2A	H421	Very toxic to the soil environment.	-
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing fumes, vapours and spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Storage Code	Storage Statement
None allocated	

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

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT Wt%
metamitron (ISO); 4-amino-3-methyl-6-phenyl-1,2,4-triazin-5-one	41394-05-2	50-60
other ingredients		To 100%

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.

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.

If on Skin Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Seek medical assistance if needed.

If Swallowed Possible risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.

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:

Swallowed: Harmful if swallowed

Dermal: Harmful if in contact with skin

Inhalation: Harmful if inhaled.

Advice to Physician: Treat Symptomatically

Section 5: FIRE FIGHTING MEASURES

Hazard Type: Non Flammable. Vapours can form explosive mixtures with air.

Hazards from Combustion: Oxides of carbon, sulphur and nitrogen may be released.

Extinguishing Media: Co-ordinate fire-fighting measures to the fire surroundings.
Water spray, Dry extinguishing powder, Foam, Carbon dioxide (CO₂).

Precautions for firefighters and special protective clothing: In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

HAZCHEM Code: 2X

Section 6: ACCIDENTAL RELEASE MEASURES

Wear PPE as detailed in Section 8. Evacuate all unnecessary personnel.
Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste. Dispose of contained wastes in accordance with the requirements of Local Authorities as detailed in Section 13.

If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Section 7: HANDLING AND STORAGE

- Handling:** Read label before use.
 Avoid breathing fumes, vapours and spray and contact with skin and eyes.
 Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 Wear protective clothing as detailed in Section 8.
- Storage:** Store away from incompatible materials listed in Section 10.
 Keep out of reach of children.
 Keep container tightly closed.
 Keep away from food, drink and animal feeding stuffs.
- Other Information:** Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
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 NOV 2019 11TH EDITION.

Engineering Controls

Ensure ventilation is adequate, generally natural ventilation is adequate.

Personal Protection Equipment



Eyes	Wear chemical goggles or face shield.
Hands	When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable protective clothing.
Respiratory	Where insufficient ventilation, use suitable respiratory protection.
General	Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	White
Odour	Characteristic
Odour Threshold	Not available
pH	6,53
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	>76°C
Flammability	Non Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity or density	1.19g/ml
Water Solubility	Not available

Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity / dynamic	0,1371-0,1914 mPa·s
Octanol/Water Particle Coefficient	Not available

Section 10: STABILITY AND REACTIVITY

Stability of Substance	This product is stable under normal conditions.
Possibility of Hazardous Reactions	None expected.
Conditions to Avoid	None known.
Incompatible Materials	No data available
Hazardous Decomposition Products	No known hazardous decomposition products.

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Swallowed	Harmful if swallowed.
Dermal	Harmful if in contact with skin.
Inhalation	Harmful if inhaled.
Eye	Not applicable.
Skin	Not applicable.

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.

Individual component information as per CCID www.epa.govt.co.nz :

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Metamitron (Cas no 41394-05-2)	650 mg/kg (dog)	1000mg/kg (Rat)	>2.06mg/L(mouse/Hamster)

Section 12: ECOTOXICOLOGICAL INFORMATION

HSNO Classes:	9.1A	Very Toxic to aquatic life with long lasting effects.
	9.2A	Very toxic to the soil environment.
	9.3C	Harmful to terrestrial vertebrates.

Product

Persistence and degradability	No data available
Bioaccumulation	No data available on product metamitron (ISO); 4-amino-3-methyl-6-phenyl-1,2,4-triazin-5-one = 0.83 (Log Pow)
Mobility in Soil	No data available
Other adverse effects	No data available

Individual component information (Please refer to www.epa.govt.co.nz for full details):

Metamitron (Cas no 41394-05-2)

Route	Species	Duration	Value LC50/EC50
Aquatic, Algal	Scenedesmus subspicatus	-	0.22 mg/L
Bioaccumulative	No		
Rapidly Degradable	No		
Very ecotoxic in the soil environment	A root absorbed herbicide that is toxic to marine plants and is persistent in the environment. Although this substance is supposed to be a specific herbicide, it is likely to be toxic to non-target species in the soil.		Soil DT 50 > 30 days: ND

Do not allow to enter waterways.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Method:	Triple rinse container and add rinsate to the spray tank. Dispose of product only by using in accordance with label directions, or through Agrecovery Chemical Recovery Service or alternative approved programs.
Container Disposal:	Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for free recycling. Otherwise crush and bury in an approved landfill. Do not burn. Do not use container for any other purpose.
Precautions or methods to avoid:	Do not allow product or empty container to contaminate any waterway.

Section 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012



It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertiliser's during transport.

Transport Information – Road Rail, Sea and Air Transport

UN Number:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (metamitron (ISO); 4-amino-3-methyl-6-phenyl-1,2,4-triazin-5-one)
DG Class:	9
Packing Group:	III
Marine Pollutant:	Yes
Hazchem Code:	2X

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

ACVM: Registered pursuant to the ACVM Act 1997, P9779
See www.foodsafety.govt.nz for registration conditions.

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017
EPA Approval Code: HSR101345 See www.epa.govt.nz for approval controls.

HSNO Classification: 6.1D(oral, dermal, inhalation), 9.1A, 9.2A, 9.3C

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100L (9.1A)
Emergency Response Plan (Schedule 5)	100L (9.1A)
Secondary Containment (Schedule 5)	100L (9.1A)
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
HSNO Additional Controls (Restrictions of use)	
77A – A maximum application rate is set for this substance.	The maximum application rate for this substance is 5 L/ha (equivalent to 4.2 kg metamitron/ha) per application, with a maximum application frequency of 3 per year.
Hazardous Property Controls Notice 2017	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
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	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart B	Use of class 9 substances in any place
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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 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

This SDS 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.