Safety Data Sheet



Maize Guard[®]

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Maize Guard®
Product Code:	7958090 (20 Litres) 7958093 (200 Litres) 7958096 (1000 Litres)
Recommended Use:	Selective herbicide for the control of certain grass and broadleaf weeds in maize and sweetcorn.
Restrictions of Use:	Refer to Section 15
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 Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police
Date of SDS Preparation	9 May 2024 v2

Section 2: HAZARD IDENTIFICATION

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

EPA Approval No:	HSR00	0404			
Pictograms:	(!				
Signal Word:	Warnii	Warning			
GHS Classification and Cate	gory	Hazard Code	Hazard Statement		
Acute oral toxicity Cat. 4		H302	Harmful if swallowed.		
Acute inhalation toxicity Cat	4	H332	Harmful if inhaled.		
Skin irritation Cat. 2		H315	Causes skin irritation.		
Eye irritation Cat. 2		H319	Causes serious eye irritation.		
Skin sensitisation Cat. 1		H317	May cause an allergic skin reaction.		
Specific target organ toxicity exposure Cat. 2	repeated	H373	May cause damage to organs through prolonged or repeated exposure.		
Hazardous to the aquatic en acute Cat. 1	vironment	H400	Very toxic to aquatic life.		
Hazardous to the aquatic en chronic Cat. 1	vironment	H410	Very toxic to aquatic life with long lasting effects.		
Hazardous to soil organisms		H421	Hazardous to soil organisms.		
Hazardous to terrestrial vertebrates.		H433	Hazardous to terrestrial vertebrates.		

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, vapours or 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.
P272	Contaminated work clothing should not be allowed out of the workplace.
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.

Rinse mouth.
Take off contaminated clothing and wash before re-use.
Collect spillage.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
-

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
Acetochlor	34256-82-1	84%
Dichlormid	37764-25-3	10-15%
Solvent	112-34-5	0-5%
other ingredients		To 100

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. If eye irritation persists: Get medical advice/attention.	
If on skin:	Take off contaminated clothing and wash before re-use. Wash affected area thoroughly with soap	
	and water. If skin irritation occurs: Get medical advice/ attention.	
If ingested:	Rinse mouth. Never give anything by mouth to an unconscious person. If swallowed DO NOT induce	
	vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek	
	medical assistance immediately.	
If inhaled:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has	
	stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.	
Most important sym	ptoms and effects, both acute and delayed	
Symptoms:	Please refer to Section 11 for full details and symptoms.	
Eyes:	Causes serious eye irritation.	
Skin:	Causes skin irritation. May cause an allergic skin reaction.	
Ingested:	Harmful if swallowed.	
Inhaled:	Harmful if inhaled.	
Chronic:	May cause damage to organs through prolonged or repeated exposure.	
Notes to Doctor:	Treat symptomatically.	

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Non Flammable
Hazards from combustion products	If involved in a fire may evolve carbon dioxide, carbon monoxide, hydrogen
	chloride.
Suitable Extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Draduct Name, Maire Cuard	CDC Drenared by Technical Compliance Consultants (NIZ) Ltd

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area. **Environmental precautions:**

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority. **Methods and material for containment and cleaning up:**

Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of according to Section 13.

Section 7: HANDLING AND STORAGE

Handling:	Read carefully and follow all instructions.
	Avoid contact with skin, eyes and inhalation of spray mist.
	Do not breathe fumes, vapours or spray.
	Wash hands thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	Use only outdoors or in a well-ventilated area.
	Contaminated work clothing should not be allowed out of the workplace.
	Avoid release to the environment.
	Wear protective clothing as detailed in Section 8.
	Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept
	where more than 3lt of this product is used within 24hrs in a place where the pesticide is likely to
Storeget	enter air or water and leave the place.
Storage:	Keep out of reach of children.
	Store away from incompatible materials listed in Section 10.
	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs,
	fertiliser, seed.
	Store in accordance with NZS 8409 Management of Agrichemicals. This product is subject to signage
	and secondary containment when stored in quantities of 100litres or more, either alone or in
	aggregate with substances of the same hazard classification. More than 100litres requires emergency
	response plans. For full details refer to NZS 8409 Management of Agrichemicals and HSNO
	Regulations (Emergency Management and Identification Regulations).

Section 8: EXPOSURE CONTROL/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 NOV 2023 14TH EDITION.

Engineering	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering	
Controls:	controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist.	
Personal Protection	n Fauinment:	
Eyes:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles.	
Skin/Hands:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear chemically resistant gloves, cotton overalls buttoned to the neck and wrist, and boots.	

Respiratory:	Respiratory protection should be worn in areas with poor ventilation.	
General:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and	
	face before meals and after work. Wash protective clothing daily after work.	

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Clear, dark amber to purple
Odour	Aromatic
Odour Threshold	Not available
рН	7.0 (5% solution)
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Non Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.11
Water Solubility	Emulsifies in water
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Other information	(EC) Emulsifiable concentrate

Section 10: STABILITY AND REACTIVITY

Stability of Substance	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Possibility of hazardous reactions	Not available
Conditions to Avoid	None known.
Incompatible Materials	Avoid contact with oxidising agents.
Hazardous Decomposition Products	None known.

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Swallowed	Harmful if swallowed. LD ₅₀ (rat) 1426mg/kg for acetochlor	
	Amounts as single exposure swallowed incidental to normal handling are unlikely to cause injury	
	however swallowing larger amounts may cause injury. Symptoms include gastrointestinal	
	irritation and depression of central nervous system.	
Dermal	Not applicable. LD ₅₀ (rabbit) >2240mg/kg for acetochlor	
Inhalation	Harmful if inhaled. LC ₅₀ (rat) (4hr) >3.85 mg/l for acetochlor	
	Under normal application conditions exposure to the spray mix is very low and unlikely to cause	
	any health effects. When applying this product avoid inhalation of spray mist.	
Eye	Causes severe eye irritation.	
Skin	The concentrate may cause skin irritation on prolonged contact. May cause an allergic skin	
	reaction.	

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Not applicable. Data indicates no reproductive effects. Other foetal effects only occurred at doses toxic to the mother.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated exposure.	
Chronic Effects	Acetochlor is a suspected kidney toxicant	

Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Hazardous to soil organisms.

Hazardous to terrestrial vertebrates.

Product:

Persistence and	Potential for mobility is moderate as acetochlor is only weakly bound by the soil, increasing along	
degradability/Mobility	with organic matter however the potential for leaching is significantly reduced by rapid	
	degradation. Microbial degradation is the major cause of loss from the soil. The average	
	persistence at recommended rates is 8-12weeks.	
Bioaccumulation	No data available.	
Other adverse effects	Avoid unintended release into streams and waterways.	

Ecotoxicity:

Acute Toxicity (fish) (acetochlor)

LC₅₀ (bluegill sunfish) (96hr) 1.3mg/l LC₅₀ (rainbow trout) (96hr) 0.45mg/l

Acute Toxicity (daphnia)

LC₅₀ (48hr) 16mg/l

Very toxic to fish and other aquatic organisms

Acute Toxicity (birds)

LD₅₀ (bobtail quail) 1260mg/kg

Non-toxic to birds

Acute Toxicity (bees)

 $LD_{50} > 100 ug/bee$

Non-toxic to bees

Section 13: DISPOSAL INFORMATION

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 5433:2020



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. (acetochlor 84%)
Marine Pollutant	Yes
Hazchem Code	3Z
Special Provisions	If the product's individual container is below 5L 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 2017EPA Approval Code:HSR000404

HSW (HS) Regulations 2017	Trigger Quantity	
Signage Trigger Quantities (Schedule 3)	100L	
Emergency Response Plan (Schedule 5)	100L	
Secondary Containment (Schedule 5)	100L	
Tracking (Schedule 26)	Not required	
Certified Handlers	Not required	
Location Certificate	Not required	
HSNO Additional Controls (Restrictions of use)		
7A - The substance must not be applied onto or into water.		
ACVM Act and Regulations		
See <u>www.foodsafety.govt.nz</u> for registration conditions P7158		

Section 16: OTHER INFORMATION

Glossary

- 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 Nov 2023 14th 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 Ravensdown, if further information is required.

Issue Date: 9 May 2024 Review Date: 9 May 2029