

Safety Data Sheet

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

Section 1. Identification of the material and the supplier

Product	Regulate
Product Use	Plant Growth Regulator
Restriction of Use	Refer to Section 15
New Zealand Supplier	Agrisource 2000 Ltd
Address	45 Kitchener Road, Pukekohe, Auckland
Telephone	+64 9 237 0422
Emergency No:	0800 764 766 (National Poison Centre)
Date of SDS Preparation	12 November 2025

Section 2. Hazards Identification

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

EPA Approval No	HSR000758
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Pictograms



Signal Word	Danger
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GHS Classification and Category	Hazard Code	Hazard Statement
Corrosive to metals Cat. 1	H290	May be corrosive to metals.
Acute dermal toxicity Cat. 3	H311	Toxic in contact with skin.
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to terrestrial vertebrates	H432	Hazardous to terrestrial vertebrates.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P314	Get medical advice/attention if you feel unwell.
P322	Specific measures (see ... <reference to supplemental first aid instruction> on this label).
P330	Rinse mouth.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
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.

Storage Code	Storage Statement
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

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

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS Number
Chlormequat Chloride	64-66%	999-81-5
Other ingredients not contributing to the hazards classification	>20%	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	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing, footwear. Wash affected areas with soap and water. If a large area is affected seek medical aid. Persons assisting the patient should protect themselves from contamination.
If Swallowed	DO NOT attempt to give anything by mouth to a semi-conscious or unconscious person. DO NOT induce vomiting. Contact National Poisons Centre (0800 764 766) for advice.
If Inhaled	Remove patient to fresh air. Keep patient at rest. Begin artificial respiration if patient is not breathing and seek medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms	Toxic in contact with skin. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Ingestion of large amounts may affect the central nervous system (e.g. Dizziness, headache).
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Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from products	In a fire, hydrochloric acid, chloride, nitrogen oxides and carbon monoxide may be formed.
Suitable Extinguishing media	Water spray, extinguishing powder, foam, carbon dioxide.
Precautions for firefighters and special protective clothing	Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases.
HAZCHEM Code	2X

Section 6. Accidental Release Measures

For emergency responders	Wear protective equipment as detailed in Section 8. Avoid contact with skin and eyes. Clear area of all unprotected personnel. Ensure adequate ventilation.
Environmental precautions	Do not allow entering drains or watercourses. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations.
Methods and material for containment and cleaning up	Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry. Dispose of waste safely in an approved landfill or hazardous waste facility as per Section 13.

Section 7. Handling and Storage

Precautions for Handling

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling and before meals.
- Do not eat or drink while using.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

Precautions for Storage

- Keep out of reach of children.
- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in corrosive resistant container with a resistant inner liner. HDPE Plastic drum. Labelled Toxic–Corrosive - Ecotoxic
- Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs.
- Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Section 8.**Exposure Controls/Personal Protection****WORKPLACE EXPOSURE STANDARDS** (provided for guidance only)

Substance	TWZ	STEL
No ingredients have exposure limits	ppm mg/m ³	ppm mg/m ³

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 Controls

Handle outdoors or in a well-ventilated area.

Personal Protection Equipment**Eyes**

Wear safety glasses with side shields.

Skin & Body

Chemical resistant coveralls, chemical resistant footwear plus socks, chemical resistant headgear for overhead exposures.

Hands

Chemical resistant gloves.

General

Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

Section 9. Physical and Chemical Properties

Appearance	Liquid
Colour	Light yellow
Odour	Amine like
Odour Threshold	Not available
pH	5.0 – 7.0
Boiling Point	~100°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity or density	Approx. 1.13 -1.16 g/ml @ 20°C
Solubility	Completely miscible with water
Partition Coefficient:	Log Pow = -1.6 (pH)
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Oxidation properties	Incompatible with oxidizing agents, acids, and bases.

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	None expected.
Conditions to Avoid	Avoid sources of ignition and extreme heat
Incompatible Materials	Aluminium and its alloys
Hazardous Decomposition Products	In a fire hydrochloric acid, chloride, nitrogen oxides and carbon monoxide may be formed

Section 11. Toxicological Information

Acute Effects – Chlormequat chloride

Oral	LD50 - 807mg/kg (rat)
Dermal	LD50 - 232mg/kg (rabbit)
Inhalation	LC50(4 hr) - >5.2mg/L

Mixture

Swallowed	Harmful if swallowed
Dermal	Toxic in contact with skin
Inhalation	Not classified
Eye	Non-irritant. (rabbit)
Skin	Non-irritant. (rabbit)
Sensitisation	Non-sensitising (guinea pig)

Chronic Effects

Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Germ Cell Mutagenicity	Not classified
Aspiration	Not classified
STOT/SE	Not classified
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

General	Hazardous to terrestrial vertebrates
Persistence and degradability	Readily biodegradable in soil, according to appropriate OECD Test. DT50 = 8-10 day
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available
Ecotoxicity	Fish toxicity: LC50 (96 h): 652mg/l rainbow trout Acute toxicity: EC50 (48 h) 16.7 mg/l for chlormequat chloride Daphnia toxicity: Chronic NOEC (21d) 5.0 mg/L for chlormequat chloride Bird toxicity: LD50: pheasant 261mg/kg for chlormequat chloride Bee toxicity: Not toxic to Bees
Waterways	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method	Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.
Container Disposal	Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

Recycling



Precautions or methods to avoid	Avoid release to the environment.
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Section 14. Transport Information

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

Pictograms



Road, Rail, Sea and Air Transport

UN No	2922
Class - Primary	8
Class – Subsidiary	6.1
Packing Group	III
Proper Shipping Name	CORROSIVE LIQUID, TOXIC, N.O.S. (chlormequat chloride, 72%)
Marine Pollutant	No
Special Provisions	-

Section 15. Regulatory Information

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

EPA Approval No	HSR000758
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HSW (HS) Regulations 2017	Trigger Quantity
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Location Certificate	1000L (6.1C)
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Signage Trigger Quantities (Schedule 3)	1000L
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Emergency Response Plan (Schedule 5)	100L
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Secondary Containment (Schedule 16)	100L
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Tracking (Schedule 26)	Not required
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Certified Handlers	Not required
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HSNO Additional Controls (Restrictions of use)

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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	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 ecotoxic substances
HPC Notice Part 4 Subpart B	Use of ecotoxic substances in any place. Variation: Clause 52 of the Hazardous Property Controls Notice applies to this substance as if it is an agrichemical that is in the hazard class hazardous to the aquatic environment.
HPC Notice Part 4 Subpart C	Qualifications required for application of ecotoxic pesticides.

ACVM Act and Regulations

See www.foodsafety.govt.nz for registration Conditions P9464

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

EPA Hazardous Substances (Safety Data Sheets) Notice 2017
Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14th edition.
Assigning a hazardous substance to a HSNO Approval (Aug 2013).
Transport of Dangerous goods on land NZS 5433:2020
HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the Agrisource 2000 Ltd, if further information is required.

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