

SAFETY DATA SHEET

REGULATE Plant Growth Regulator

Date of Issue: 11th July 2018

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Chemical Family:	Chlormequat Chloride
Recommended use:	Plant growth regulator
Supplier:	Agrisource 2000 Limited 45 Kitchener Road Pukekohe Phone: 09 237 0422
Emergency telephone number:	0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classifications:	6.1C, 6.9B, 8.1A, 9.1D, 9.3B
Required identification Details:	6.1C acute toxicant 6.9B target organ toxicant 8.1A metallic corrosive 9.1D aquatic toxicant 9.3B terrestrial vertebrae toxicant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Chlormequat Chloride	999-81-5	72%
Other ingredients		>20%

4. FIRST-AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. **Phone 0800 764 766, (0800 POISON).**

Effects and symptoms: Ingestion of large amounts may affect the central nervous system (e.g. Dizziness, headache)

First-aid measures

Inhalation:

Remove patient to fresh air. Keep patient at rest. Begin artificial respiration if patient is not breathing and seek medical advice.

Ingestion:

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.

Skin contact:

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.

Eye contact:

If concentrate gets in the eyes, flush with running water for at least 15 minutes and obtain medical aid.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

2X

Extinguishing media :

Water fog, foam, dry chemical, Carbon dioxide.

Fire Hazard Properties:

In a fire, hydrochloric acid, chloride, nitrogen oxides and carbon monoxide may be formed.

Protection of fire-fighters:

Wear protective clothing (PPE) and self-contained breathing apparatus. Do not breathe smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Do not inhale spray. Wear Full Personal Protective Equipment (**PPE**). Chemical resistant coveralls, chemical resistant gloves, chemical resistant footwear plus socks, chemical resistant headgear and chemical resistant eyewear.

Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing after work.

Environmental precautions:

Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Methods for cleaning up:

In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of drummed wastes in accordance with the requirements of Local Authorities.

7. HANDLING AND STORAGE

Handling:	This product must be under the control of an Approved Handler. Tracking Location and movement of this product must be recorded at each stage of its life cycle. Avoid inhaling aerosols and vapors. 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.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
Packaging materials:	HDPE Plastic drum. Labelled Toxic –Corrosive - Ectoxic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards: No exposure limit allocated.

**Exposure Standards outside:
The workplace:** No exposure standards have been set for this product or the active ingredients.

Engineering measures

Exposure control measures: Ensure ventilation is adequate, generally natural ventilation is adequate.

Personal Protective Equipment (PPE)

Detail specifications for equipment:

Skin and body:	Chemical resistant coveralls, chemical resistant footwear plus socks, chemical resistant headgear for overhead exposures.
Hands:	Chemical resistant gloves.
Eyes:	Chemical resistant eyewear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Light yellow coloured
Odour:	Amine like
pH:	5 - 7
Vapour Pressure:	Is an organic salt, vapour pressure is negligible
Boiling Point:	Circa 100°C
Solubility:	Completely miscible with water
Specific gravity or density:	Approx. 1.13-1.16 g/ml at 20° C
Flashpoint:	Does not flash
Partition coefficient:	Log Pow = -1.6 (pH)
Flammability properties:	Non flammable

Oxidation properties: Not an oxidizer

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use

Conditions to avoid: Avoid sources of ignition and extreme heat

Materials to avoid: Aluminium and its alloys

Hazardous decomposition Products: In a fire hydrochloric acid, chloride, nitrogen oxides and carbon monoxide may be formed

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral : LD₅₀ 807mg/kg (rat) for chlormequat chloride
Acute toxicity - Dermal : LD₅₀ 232mg/kg (rabbit) for chlormequat chloride
Acute toxicity – Inhalation: LC₅₀ (4 hr) >5.2mg/L for chlormequat chloride
Skin irritation : Non-irritant (rabbit)
Eye irritation: Non irritant (rabbit)
Sensitization : Non sensitizing (guinea pig)

12. ECOLOGICAL INFORMATION

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
Soil: Readily biodegradable in soil, according to appropriate OECD Test. DT50 = 8-10 days

13. DISPOSAL CONSIDERATIONS

Methods of disposal : 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.

14. TRANSPORT INFORMATION - International transport regulations

UN number: 1760

Class: 8

Packing Group: III

Marine Pollutant: No

Proper shipping name : CORROSIVE LIQUID, N.O.S. - (chlormequat chloride, 72%)

15. REGULATORY INFORMATION

ACVM Registered Number:	P9464 (See www.foodsafety.govt.nz for registration Conditions).
HSNO Approval Code:	HSR000758 (See www.epa.govt.nz for controls).
Approved Handler:	This product must only be applied by an Approved Handler or under the supervision of an Approved Handler.
Tracking:	Location and movement of this product must be recorded at each stage of its lifecycle.

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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