

Infosafe No™ 3NUZ7	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **GETSET Plant Growth Regulant**

Classified as hazardous

1. Identification

GHS Product Identifier	GETSET Plant Growth Regulant
Product Code	0834
Product Type	Plant Growth Regulator
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on use	This product is an aid in increasing the berry set and yield of wine grapes and increase the setting of currants as per the Directions for Use table on the label.
Other Information	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture	Acute Toxicity - Oral: Category 4 Acute Toxicity - Dermal: Category 4 Corrosive to Metals: Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	Harmful if swallowed. Harmful in contact with skin. May be corrosive to metals.
General Precautionary Statement (s)	If medical advice is needed, have product container or label at hand. Keep out of reach of children.
Pictogram (s)	Read label before use. Corrosion, Exclamation mark, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement - Prevention	Keep only in original container. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing, eye and face protection.
Precautionary statement - Response	Absorb spillage to prevent material damage. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.
Other Information	Poisons Schedule 6 This product is a Class 8 Dangerous Good. It is not corrosive to skin, but is corrosive to aluminium.

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Chlormequat (present as chlormequat chloride)	999-81-5	582 g/L

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Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Water		Remainder

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty of water. Obtain medical advice.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and laundry before re-use.
Eye contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical advice if irritation develops or persists.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Chlormequat is a weak ganglionic stimulant with an action similar to that of nicotine. An effective antidote has not been established. Based on animal studies, breathing difficulties, clonic-toxic spasms may occur. Ingestion of larger amounts may cause central nervous system effects (headache and dizziness).

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, the dehydrated components may emit oxides of carbon and hydrogen chloride or chlorinated compounds.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which chlormequat chloride is involved.
Specific hazards arising from the chemical	The product will not burn or burns with difficulty. Use an extinguishing media suitable for the surrounding fires.
Hazchem Code	2X
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.

7. Handling and storage

Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Do not store below -10°C. Extended storage below -10°C can result in the formation of crystals on the bottom of the container. If crystallisation does occur, store the container on its side at room temperature and rock occasionally until crystals re-dissolve. Protect from temperatures above 35°C. Properties of the product may change if stored above this temperature for extended periods.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been set for this product.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.

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Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

9. Physical and chemical properties

Form	Liquid
Appearance	Yellow liquid
Odour	Slight amine odour
Solubility in Water	Soluble in water.
Specific Gravity	1.138
pH	5.3 (1% solution)
Partition Coefficient: n-octanol/water	Kow Log P is -3.47 (pH7)
Flammability	Non combustible material.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Corrosive to aluminium and its alloys.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Acute Toxicity - Oral	LD50 (rat) 1,100 mg/kg for a similar formulation
Acute Toxicity - Dermal	LD50 (rat) >5,000 mg/kg for a similar formulation
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >8.9 mg/l for a similar formulation
Ingestion	Possible symptoms of exposure of the concentrate include: breathing difficulties, central nervous system effects (dizziness and headaches) and spasms.
Inhalation	Inhalation of sprays or mists may result in effects described under ingestion.
Skin	Not a skin irritant and not harmful by dermal exposure.
Eye	May cause some discomfort if contact is prolonged.
Skin Sensitisation	Product is not a skin sensitiser.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
Other Information	The Australian Acceptable Daily Intake (ADI) for chlormequat for a human is 0.07 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 7.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2016).

12. Ecological information

Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental Protection	Spray drift can cause damage, read the label for more information.

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Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is >100 mg/l for chlormequat chloride
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 31.7 mg/l.
Acute Toxicity - Algae	EC50 (72hr) for algae >100 mg/l.
Acute Toxicity - Other Organisms	The following data is for the active ingredient, chlormequat chloride. Birds: Not toxic to birds. LD50 for japanese quail is 441 mg/kg Not toxic to bees.

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
Container Disposal	Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Empty containers and product should not be burnt. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

14. Transport information

U.N. Number	1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. - (Contains Chlormequat Chloride)
Transport hazard class(es)	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	III
Storage and Transport	Considered dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
EPG Number	8A1
IERG Number	37

15. Regulatory information

Regulatory Information	WHS Schedule 11, item 40 (corrosive to metals, category 1)
Poisons Schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 69716.

16. Other Information



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Date of preparation 26/06/2017

**or last revision of
SDS**

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions
Highlighted** The SDS was reviewed. Minor changes were made to the information and product
has been rebranded.

...End Of MSDS...

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