

Infosafe No™ 3NUI7	Issue Date : October 2018	ISSUED by NUFARM
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 Product Name **L.V.E. Agritone Selective Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	L.V.E. Agritone Selective Herbicide		
Product Code	0586	NUL 1727	
Product Type	Group I Herbicide		
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	For selective control of certain weeds in agricultural crops as listed in 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	OT4 Acute Toxicity - Oral: Category 4 DT4 Acute Toxicity - Dermal: Category 4 IT 4 Acute Toxicity - Inhalation: Category 4 ED2A Eye Damage/Irritation: Category 2A		
Signal Word (s)	WARNING		
Hazard Statement (s)	H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H319 Causes serious eye irritation.		
General Precautionary Statement (s)	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.		
Pictogram (s)	P103 Read label before use. Exclamation mark, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.		



Precautionary statement – Prevention	P261 Avoid breathing spray. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, clothing, eye and face protection.		
Other Information	Poisons Schedule S6		

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	MCPA (present as the 2-ethyl hexyl ester)	94-74-6	570 g/L
	Other ingredients (considered non-hazardous)		10-30 %

4. First-aid measures

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Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and laundry before re-use.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically. If vomiting occurs, solvent and surfactants present may cause pulmonary pneumonitis.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
Decomposition Temp.	>150°C
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. Dispose of at a landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

7. Handling and storage

Precautions for Safe Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.
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.
Other Information	Do not use on or in situations where damage to susceptible crops or plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop plants may result from direct application or drift. Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning. Care should be taken especially where capeweed, Paterson's curse and variegated thistles predominate in the pasture. 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 or the active ingredients.
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Appropriate engineering controls	The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m ³ ; 17ppm TWA, as total hydrocarbon. Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	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.
Requirements Concerning Special Training	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form	Liquid
Appearance	Clear, brown liquid
Odour	Characteristic solvent odour
Decomposition Temperature	>150°C
Boiling Point	182-202°C (for solvent present)
Solubility in Water	Forms an emulsion in water.
Specific Gravity	1.056
pH	4 (1% solution)
Vapour Pressure	0.267 mPa @ 18°C (for MCPA 2EHE)
Vapour Density (Air=1)	>1 (for solvent present)
Partition Coefficient: n-octanol/water	Kow Log P is >3.0 for MCPA 2EHE
Flash Point	107°C (CC); Firepoint 172°C.
Flammability	Combustible liquid C2. (AS1940 - 2017). A C2 combustible liquid is not a combustible liquid within the meaning of the Australian Code for the Transport of Dangerous Goods by Road & Rail.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions. Hydrolyses at pH >7.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 1300 mg/kg for MCPA 2EHE
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for MCPA 2EHE
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >4.5 mg/l for MCPA 2EHE
Ingestion	Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.
Inhalation	When applying the product as a spray avoid breathing in spray mist. High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.
Skin	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.

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Eye	Prolonged contact with the concentrate may result in absorption of MCPA in harmful amounts. May irritate the eyes.
Skin Sensitisation	Prolonged contact with the concentrate may cause damage to the eye. Product is not a skin sensitiser.
Carcinogenicity	The weight of the evidence is that MCPA is not carcinogenic.
Reproductive Toxicity	Data indicates no reproductive effects.
Chronic Effects	Data indicates no teratogenic effects.
Serious eye damage/irritation	Chronic Overexposure: Repeated absorption of relatively large amounts of MCPA presents a risk to the liver and kidneys.
Mutagenicity	Mild eye irritant.
Skin corrosion/irritation	The weight of evidence indicates that MCPA does not present a mutagenic risk.
Other Information	Mild skin irritant. The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', December 2015).

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.
Acute Toxicity - Fish	MCPA 2EHE has very low water solubility (0.1 mg/l) and rapidly hydrolyses in natural waters. The following data is for the hydrolysis product: MCPA acid. LC50 (96hr) for rainbow trout is 50 mg/l. LC50 (96hr) for fathead minnow is >3.2 mg/l.
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia is >190 mg/l for MCPA acid.
Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for bobwhite quail is >2250 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. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or

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14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
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: 62527.

16. Other Information

Date of preparation or last revision of SDS	Reviewed 24/10/2018. This SDS replaces document dated May 2016.
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498 (Australia only) +61 3 9282 1331 (Outside Australia)
Revisions Highlighted	The SDS was reviewed. Minor changes were made to the information. ...End Of MSDS...

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