

Infosafe No™ 3NUYO	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **CONQUEROR Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	CONQUEROR Herbicide
Product Code	0936
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 the control of environmental and noxious woody and herbaceous weeds as specified 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 SS-1 Sensitization - Skin: Category 1 ED2A Eye Damage/Irritation: Category 2A FL4 Flammable Liquids: Category 4 AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H227 Combustible liquid H410 Very toxic to aquatic life with long lasting effects.
General Precautionary Statement (s)	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Corrosion, Exclamation mark, Environment, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective eye and face protection. P261 Avoid breathing spray. P272 Contaminated work clothing should not be allowed out of the workplace.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
Other Information	Poisons Schedule S6

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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Triclopyr (present as the butoxyethyl ester)	64700-56-7	300 g/L
	Picloram (present as hexyloxypropylamine salt)	1918-02-1	100 g/L
	Other non-hazardous ingredients		30-60 %

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice immediately.
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	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. Seek medical advice, but only after the exposed skin has been thoroughly washed.
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.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen, hydrogen chloride and possibly phosgene.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
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

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. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
Tank Cleaning	See label for detailed information on cleaning of spray equipment.
Other Information	Always read the label and any attached leaflet before use.

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8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Picloram (present as hexyloxypropylamine salt)			10		
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.					
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 face shield or 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	Amber liquid
Solubility in Water	Disperses in water.
Specific Gravity	1.144
Vapour Pressure	0.48 mPa (triclopyr butoxyethyl ester); 0.00001 mPa (picloram).
Flash Point	93°C
Flammability	Combustible liquid C1. (AS1940). Combustible Liquid (GHS).

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
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) 803 mg/kg for triclopyr butoxyethyl ester LD50 (rat) >5000 mg/kg for picloram acid
Acute Toxicity - Dermal	LD50 (rabbit) >2000 mg/kg for triclopyr butoxyethyl ester LD50 (rabbit) >2000 mg/kg for picloram acid
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >4.8 mg/l for triclopyr butoxyethyl ester LC50 (rat) (4hr) >1.63 mg/l for a similar picloram salt
Ingestion	Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.
Inhalation	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.
Skin	May irritate the skin. May cause sensitisation by prolonged skin contact.
Eye	May irritate the eyes.
Skin Sensitisation	Prolonged and repeated skin contact may result in skin sensitisation.
Carcinogenicity	Triclopyr has been assessed in animals and some data exists that triclopyr is a substance which causes some concern for humans owing to possible

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Reproductive Toxicity	carcinogenic effects from long term exposure, but in respect of which the available information is not adequate for making a satisfactory assessment.
Chronic Effects	Data indicates no reproductive effects.
Other Information	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
	The Australian Acceptable Daily Intake (ADI) for triclopyr for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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).
	ADI for picloram is 0.07 mg/kg/day, NOEL 7 mg/kg/day.

12. Ecological information

Persistence and degradability	Triclopyr butoxyethyl ester is rapidly hydrolysed to triclopyr acid in soil and water. Triclopyr acid is degraded by microbial action and photodecomposition. Triclopyr acid, in soil, has a half-life of approximately forty days, depending on soil and climatic conditions. In water, triclopyr acid will decompose rapidly with a half-life of one to two days. Minimal leaching of triclopyr acid may occur in light soils under high rainfall conditions. Contamination of ground water by triclopyr is highly unlikely. If used according to the label, Conqueror will not be harmful to the environment.
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	The following is data for the active ingredient, triclopyr butoxyethyl ester. LC50 (96hr) for rainbow trout is 0.65 mg/l. LC50 (96hr) for bluegill sunfish is 0.39 mg/l. The following data is for a similar picloram salt LC50 (96hr) for rainbow trout is 26 mg/l. LC50 (96hr) for bluegill sunfish is 24 mg/l
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 12 mg/l for triclopyr butoxyethyl ester. LC50 (48hr) for daphnia is 64 mg/l for a similar picloram salt.
Acute Toxicity - Other Organisms	Bees: Not toxic to bees. LD50 for triclopyr and picloram is >100 µg/bee. LD50 for bobwhite quail is 735 mg/kg for triclopyr butoxyethyl ester LD50 for bobwhite quail is >2000 mg/kg for a similar picloram salt

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 inner bladder or containers before disposal. Add rinsings to the spray tank. 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. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

14. Transport information

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Storage and Transport	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. Regulatory information

Regulatory Information	WHS Schedule 11, item 10 (flammable liquid, category 4)
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: 57783.

16. Other Information

Date of preparation or last revision of SDS	27/06/2017
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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