

Infosafe No™ 3NU07 Issue Date : October 2024 ISSUED by NUFARMNZ

Product Name **CONQUEST®**

Section 1 - Identification

Product Identifier	CONQUEST®
Product Code	00175
Product Type	Herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	For the control of gorse, broom, blackberry and other brushweeds, and for the spot treatment of many broadleaf weeds including ragwort, thistles and docks. Also effective for release spraying in radiata pine, and broadleaf weed control in turf.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Flammable liquids: Category 4 Acute oral toxicity: Category 4 Acute inhalation toxicity: Category 4 Eye irritation Category 2 Skin sensitization: Category 1 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H227 Combustible liquid. H302 Harmful if swallowed. H332 Harmful if inhaled. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H373 May cause damage to kidneys or liver through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment. H433 Harmful to terrestrial vertebrates.
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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Precautionary Statement – Response	P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use dry chemical, carbon dioxide, water spray, fog or foam to extinguish. P391 Collect spillage.
Precautionary Statement – Storage	P403+P235 Store in a well-ventilated place. Keep cool.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and 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 the amine salt	1918-02-1	100 g/L

Section 4 - First Aid Measures

First-aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
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Hazards from Combustion Products	On burning will emit toxic fumes. 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	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	2X
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: 2 for 500L or more

Section 6 - Accidental Release Measures

Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Eliminate all ignition sources and naked lights. Use non-sparking utensils. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill. Prevent spill coming into contact with class 1, 2, 3.2, 4 or 5 substances.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent contamination of soil and water.

Section 7 - Handling and Storage

Precautions for Safe Handling	The person mixing or applying CONQUEST must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist. This product must not be applied onto or into water. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of CONQUEST is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from sources of ignition, seeds, fertilisers and foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Do not store near heat or flame. Stores containing 100L of CONQUEST require secondary containment and are subject to signage, and more than 100L require emergency response plans. Stores exceeding 500 litres of this substance must have at least 2 fire extinguishers. Do not store with HSNO Class 1, 2, 3.2, 4 or 5 substances.
Other Information	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

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Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. WES TWA for picloram = 10mg/m ³
Appropriate Engineering Controls	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 safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
Hygiene Measures	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 daily after work. Wash splashes of concentrate from skin immediately.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Amber to brown liquid.
Odour	Information is not available.
Decomposition Temperature	Information is not available.
Melting Point	Decomposes at c.190°C before melting for active ingredient picloram. 150.5°C for active ingredient triclopyr.
Boiling Point	Decomposes at 208°C for active ingredient triclopyr.
Solubility in Water	Disperses.
Specific Gravity	1.144
pH	2 - 6.5 (1%w/v)
Vapour Pressure	8 x 10 ⁻¹¹ mPa (25°C) for active ingredient picloram. 0.2mPa (25°C) for active ingredient triclopyr.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow logP = 1.9 (20°C, 0.1N HCl, i.e.neutral species) for active ingredient picloram. Kow logP = 0.42 (pH5) for active ingredient triclopyr.
Flash Point	92°C
Flammability	Combustible liquid.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(EC) Emulsifiable concentrate

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Strong oxidising agents.

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Hazardous Polymerization	Hazardous polymerisation will not occur.
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Section 11 - Toxicological Information

Toxicology Information	No specific toxicological data is available for this product. Data below is for constituents.
Acute Toxicity - Oral	LD50 (male rats) >5000mg/kg for active ingredient picloram. LD50 (male rats) 692mg/kg, (female rats) 277mg/kg for active ingredient triclopyr.
Acute Toxicity - Inhalation	LC50 (male and female rats) >0.035mg/L for active ingredient picloram. LC50 (4h, rats) 256ppm, for active ingredient triclopyr.
Acute Toxicity - Dermal	LD50 (rabbits) >2000mg/kg for active ingredient picloram. LD50 (rabbits) >2000mg/kg for active ingredient triclopyr.
Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled.
Skin Corrosion/Irritation	Active ingredient picloram is a mild skin irritant (rabbits).
Serious Eye Damage/Irritation	Causes serious eye irritation.
Skin Sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	May cause damage to kidneys or liver through prolonged or repeated exposure.
Aspiration Hazard	Information is not available.
Other Information	The Australian Acceptable Daily Intake (ADI) for picloram 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 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 APVMA, 'ADI List', Edition 1/2024). 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: Aust Govt Dept. of APVMA, 'ADI List', Edition 1/2024).

Section 12 - Ecological Information

Persistence and Degradability	Active ingredient picloram is quickly degraded by light, in clear water or on plant surfaces. Degraded moderately slowly to slowly by soil microorganisms, typical field DT50= 30-90d. Rate of degradation in soil strongly proportional to application rate. Aqueous photodegradation DT50 <3d. Active ingredient triclopyr has fairly rapid degradation by microbial activity in soil, DT50 (ave.) 46d, depending on soil and climatic conditions.
Mobility	Information is not available.
Bioaccumulative Potential	Triclopyr butoxyethyl ester and picloram are not bioaccumulative.
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Fish	LC50 (96h) for rainbow trout is 5.5mg/L for active ingredient picloram. LC50 (96h) for rainbow trout is 117mg/L for active ingredient triclopyr.

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Acute Toxicity - Daphnia	LC50 is 3.44mg/L for active ingredient picloram. LC50 (48h) is 133mg/L for active ingredient triclopyr.
Acute Toxicity - Algae	EC50 for Selenastrum is 36.9mg/L for active ingredient picloram. EC50 (5d) for Selenastrum capricornutum is 45mg/L for active ingredient triclopyr.
Acute Toxicity - Other Organisms	Birds: LD50 for mallard ducks and bobwhite quail is >5000mg/kg for active ingredient picloram. LD50 for mallard ducks is >1698mg/kg for active ingredient triclopyr. Bees: LD50 for honeybees is >100µg/bee for active ingredient picloram. Active ingredient triclopyr is non-toxic to bees. Contact LD50 >100µg/bee.

Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (picloram, triclopyr)
Hazard Class	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry this product on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

Section 15 - Regulatory Information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P7550 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000553 See www.epa.govt.nz for approval controls.
Packaging and Labelling	KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	May 2022.
Contact Person/Point	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
Revisions Highlighted	Various changes and updates made to the document to comply with GHS7.



Material Safety Data Sheet

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