

Infosafe No™ 3NU07	Issue Date : May 2017	APPROVED by NUFARMNZ
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 Product Name **CONQUEST®**

## 1. Identification

<b>GHS Product Identifier</b>	CONQUEST®
<b>Product Code</b>	00175
<b>Product Type</b>	Herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150 Fax: 0-9-270 4159
<b>Emergency phone number</b>	0800 651 911
<b>Recommended use of the chemical and restrictions on use</b>	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.
<b>Other Information</b>	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.

## 2. Hazard Identification

<b>Other Information</b>	3.1D flammable liquid, 6.1D acute toxicant, 6.3B skin irritant, 6.4A eye irritant, 6.5B sensitiser, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant, <b>FLAMMABLE</b> Warning - combustible liquid. <b>TOXICITY</b> Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation. May cause mild skin irritation, or sensitisation from prolonged skin contact. May cause kidney or liver damage from repeated oral exposure at high doses. <b>ECOTOXIC</b> Very toxic to aquatic organisms.  Selective herbicide - very toxic to some plant species. Harmful to terrestrial vertebrates.
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## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<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

## 4. First-aid measures

<b>First Aid Measures</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	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.

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<b>Eye contact</b>	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.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	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.
<b>Special Protective Equipment for fire fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: 2 for 500L or more

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	Prevent spill coming into contact with class 1, 2, 3.2, 4 or 5 substances. For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	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.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler if applied in a wide dispersive manner, or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. This product must not be applied onto or into water.
<b>Conditions for safe storage, including any incompatibilities</b>	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.
<b>Other Information</b>	Do not store with HSNO Class 1, 2, 3.2, 4 or 5 substances. 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

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Management of Agrichemicals and the HSNO Regulations.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. WES TWA for picloram = 10mg/m <sup>3</sup>
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	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.
<b>Hygiene Measures</b>	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.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Amber to brown
<b>Solubility in Water</b>	Disperses
<b>Specific Gravity</b>	1.144
<b>pH</b>	2 - 6.5 (1%w/v)
<b>Vapour Pressure</b>	0.2 mPa @ 25°C for triclopyr 8 x 10 <sup>-11</sup> mPa @ 25°C for picloram
<b>Flash Point</b>	92°C
<b>Other Information</b>	(EC) Emulsifiable concentrate

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	Strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	No specific toxicological data is available for this product. Data below is for constituents.
<b>Acute Toxicity - Oral</b>	LD50 = 803mg/kg for triclopyr LD50 (mouse) = 1,061mg/kg for picloram
<b>Skin</b>	May cause mild skin irritation or sensitisation from prolonged skin contact. May have a degreasing effect on the skin.
<b>Eye</b>	Moderate eye irritant.
<b>Skin Sensitisation</b>	Contact sensitiser
<b>Subchronic/Chronic Toxicity</b>	May cause kidney or liver damage from repeated oral exposure at high doses.
<b>Other Information</b>	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', December 2014). 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 Health, Office of Chemical Safety, 'ADI List', December 2014).

## 12. Ecological information

<b>Persistence and degradability</b>	Picloram and triclopyr butoxyethyl ester are persistent in the environment. Typical field DT50= 30-90 days for picloram. Soil DT50 = >30 days for triclopyr butoxyethyl ester
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<b>Mobility</b>	Aqueous photodegradation DT50 = <3 days for picloram. Picloram is very mobile and persistent. Biological degradation is slow under aerobic or anaerobic conditions.
<b>Bioaccumulative Potential</b>	Triclopyr butoxyethyl ester and picloram are not bioaccumulative.
<b>Basis for Assessment</b>	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
<b>Acute Toxicity - Fish</b>	LC50 (96h) for bluegill sunfish is 0.36mg/L for triclopyr butoxyethyl ester Chronic LOEC (65d) for rainbow trout = 0.048mg/L for triclopyr butoxyethyl ester LC50 (96h) for lake trout is 1.55 mg/L for picloram Chronic NOEL (26d) rainbow trout = 0.55mg/L for picloram
<b>Acute Toxicity - Daphnia</b>	EC50 (48h) daphnia magna = 1.7mg/L for triclopyr butoxyethyl ester LC50 mortality (48h) daphnia magna = 50.7mg/L for picloram
<b>Acute Toxicity - Algae</b>	EC50 (24h) freshwater diatom = 0.10mg/L for triclopyr butoxyethyl ester EC50 (96h) green algae = 36.79mg/L for picloram Chronic EC50 (2-3weeks) green algae = 44.8mg/L for picloram
<b>Acute Toxicity - Other Organisms</b>	LD50 (21d) for bobwhite quail = 735mg/kg for triclopyr butoxyethyl ester EC25 alfalfa = 0.0129mg/kg soil for triclopyr butoxyethyl ester LD50 (48h) honey bee = 14.5µg/bee for picloram LD50 >100µg/bee for triclopyr Picloram is practically non-toxic to earthworms

### 13. Disposal considerations

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

### 14. Transport information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>U.N. Number</b>	3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (triclopyr 30%, picloram 10%)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-
<b>IERG Number</b>	47
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>IMDG EMS</b>	F-A, S-F
<b>Other Information</b>	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.

### 15. Regulatory information

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P7550 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000553 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging &amp; Labelling</b>	WARNING - combustible liquid HARMFUL * ECOTOXIC - keep out of reach of children
<b>Hazard Rating Systems</b>	NFPA/HMIS: 2-2-1



# Safety Data Sheet

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## 16. Other Information

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**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  
5 yearly review carried out. Various changes and updates made to document.

**Revisions**

**Highlighted**

**Other Information** Supersedes SDS issued May 2012

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