



Infosafe No™ 3NV3X	Issue Date : October 2024	ISSUED by NUFARMNZ
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 Product Name **ARCHER®750**

## Section 1 - Identification

<b>Product Identifier</b>	ARCHER®750
<b>Product Code</b>	00100
<b>Product Type</b>	Herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency Phone Number</b>	0800 651 911
<b>Email</b>	nzinfo@nufarm.com
<b>Recommended uses and any restrictions on use or supply</b>	Herbicide for the control of certain broadleaf weeds in a wide range of crops.
<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.

## Section 2 - Hazard(s) Identification

<b>GHS classification of the substance/mixture</b>	Specific target organ toxicity - repeated exposure: Category 1 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the aquatic environment chronic Category 3
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H372 Causes damage to the liver through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects. H421 Very toxic to the soil environment. H432 Toxic to terrestrial vertebrates.
<b>Precautionary Statement – General</b>	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
<b>Pictogram (s)</b>	Health hazard, Environment <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;">   </div>
<b>Precautionary Statement – Prevention</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.
<b>Precautionary Statement – Response</b>	P314 Get medical advice/attention if you feel unwell. P391 Collect spillage.
<b>Precautionary Statement – Disposal</b>	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>
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Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Clopyralid (present as the dimethylamine and methylamine salts)	1702-17-6	750 g/L
	Other non hazardous ingredients		Balance

## Section 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.
<b>Eye</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.
<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.

## Section 5 - Firefighting Measures

<b>Suitable Extinguishing Media</b>	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
<b>Hazards from Combustion Products</b>	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
<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. Keep containers cool with water spray.
<b>Hazchem Code</b>	2Z
<b>Decomposition Temperature</b>	Information is not available.
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## Section 6 - Accidental Release Measures

<b>Spills and Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. 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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent product or washings from entering drains, waterways or sewers, and prevent contamination of soil. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

## Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	The person mixing or applying ARCHER 750 must be a 'Qualified Contractor' or 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified
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**Conditions for safe storage, including any incompatibilities**

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: Written record of each application must be kept where members of the public may lawfully be present, or, where the substance is likely to enter air or water and leave the place.  
Keep out of reach of children.  
Store in original container tightly closed and in a locked dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.  
Stores containing 100L of ARCHER 750 are subject to signage, 1,000L require secondary containment and more than 1,000L require emergency response plans.

**Additional information on precautions for use**

Do not use for treating turf that will be mown and the clippings used for making compost; or made available for collection for, or deposited at, a green waste recycling centre.

**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.

## Section 8 - Exposure Controls and Personal Protection

**Occupational Exposure Limits (OEL)**

No Workplace Exposure Standards (WESSs) have been set for clopyralid.  
No Environmental Exposure Limits (EELs) have been set for substances containing clopyralid.  
Tolerable Exposure Limits (TELs) have been derived from Acceptable Daily Exposure (ADE) values.  
ADE for clopyralid is 0.15mg/kg bw/day  
PDE (food) = 0.105mg/kg bw/day  
PDE (drinking water) = 0.03mg/kg bw/day

**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, chemically resistant 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** Dark brown clear liquid.

**Odour** Information is not available.

**Decomposition Temperature** Information is not available.

**Melting Point** 151-152°C for active ingredient clopyralid.

**Boiling Point** Information is not available.

**Solubility in Water** Soluble in water.

**Specific Gravity** 1.284g/ml

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<b>pH</b>	6.0-8.0 (1% aq)
<b>Vapour Pressure</b>	1.33mPa (pure, 24°C) for active ingredient clopyralid.
<b>Vapour Density (Air=1)</b>	Information is not available.
<b>Odour Threshold</b>	Information is not available.
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P = -1.81 (pH 5) for active ingredient clopyralid.
<b>Flash Point</b>	No flashing exhibited in ignition test for active ingredient clopyralid.
<b>Flammability</b>	Non combustible material.
<b>Auto-ignition Temperature</b>	Information is not available.
<b>Flammable Limits - Lower</b>	Information is not available.
<b>Flammable Limits - Upper</b>	Information is not available.
<b>Kinematic Viscosity</b>	Information is not available.
<b>Particle Characteristics</b>	Information is not available.
<b>Other Information</b>	(SL) Soluble concentrate

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## Section 11 - Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rats) 5000mg/kg for ARCHER 750.
<b>Acute Toxicity - Inhalation</b>	LC50 (rats) (4hr) >5.580mg/L air for ARCHER 750.
<b>Acute Toxicity - Dermal</b>	LD50 (rats) >2000mg/kg for ARCHER 750.
<b>Skin Corrosion/Irritation</b>	Not a skin irritant for active ingredient clopyralid.
<b>Serious Eye Damage/Irritation</b>	Severe eye irritant for active ingredient clopyralid.
<b>Skin Sensitisation</b>	Information is not available.
<b>Germ Cell Mutagenicity</b>	Information is not available.
<b>Carcinogenicity</b>	Information is not available.
<b>Reproductive Toxicity</b>	Information is not available.
<b>STOT - Single Exposure</b>	Information is not available.
<b>STOT - Repeated Exposure</b>	Causes damage to liver through prolonged or repeated exposure.
<b>Aspiration Hazard</b>	Information is not available.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for clopyralid for a human is 0.5 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 50 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).

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## Section 12 - Ecological Information

<b>Persistence and Degradability</b>	In soil, microbial degradation occurs; slow degradation occurs in sterile soil. Aerobic soil degradation depends on initial concentration, soil temperature and soil moisture for active ingredient clopyralid.
<b>Mobility</b>	Rapid degradation in soil prevents significant downward movement under normal conditions.
<b>Bioaccumulative Potential</b>	Information is not available.
<b>Acute Toxicity - Fish</b>	LC50 (96h) rainbow trout is 103.5mg/L for active ingredient clopyralid. LC50 (96h) bluegill sunfish is 125.4mg/L for active ingredient clopyralid.
<b>Acute Toxicity - Daphnia</b>	EC50 (48h) is 225mg/L for active ingredient clopyralid.
<b>Acute Toxicity - Algae</b>	EC50 (96h) Selenastrum capricornutum is 6.9(cell count)mg/L for active ingredient clopyralid.
<b>Acute Toxicity - Other Organisms</b>	Birds: LD50 bobwhite quail >2000mg/kg for active ingredient clopyralid. Bees: not toxic to bees. LD50 (48h, oral and contact) >100µg/bee for active ingredient clopyralid. Worms: LC50 (14d) earthworms >1000mg/kg soil for active ingredient clopyralid.

## Section 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.

## Section 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>UN Number</b>	3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (clopyralid)
<b>Hazard Class</b>	9
<b>Hazchem Code</b>	2Z
<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>	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

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P9693 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 HSR101372 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging and Labelling</b>	READ SAFETY DIRECTIONS BEFORE OPENING OR USING KEEP OUT OF REACH OF CHILDREN

## Section 16 - Any Other Relevant Information

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**Date of preparation  
or last revision of  
SDS**      October 2019.

**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**                5 yearly review carried out. Various changes and updates made to the document  
to comply with GHS7.  
...End Of MSDS...

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