

Infosafe No™ 3NUQS      Issue Date : February 2024      ISSUED by NUFARMNZ

Product Name **DICTATE™480**

## Section 1 - Identification

<b>Product Identifier</b>	DICTATE™480
<b>Product Code</b>	00840
<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>	Selective contact herbicide for the control of chamomiles, stinking mayweed, cleavers, storksbill, Onehunga weed and other broadleaf weeds in onions, cereals, pasture, plantain and plantain clover mixed swards, clover and grass seed crops, potatoes, soyabeans, peas, lucerne and 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.

## Section 2 - Hazard(s) Identification

<b>GHS classification of the substance/mixture</b>	Acute oral toxicity: Category 4 Acute dermal toxicity: Category 4 Acute inhalation toxicity: Category 4 Eye irritation Category 2 Skin sensitization: Category 1 Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the aquatic environment chronic Category 3
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed H312 Harmful in contact with skin H332 Harmful if inhaled H320 Causes eye irritation H317 May cause an allergic skin reaction H412 Harmful to aquatic life with long lasting effects H433 Harmful 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 carefully and follow all instructions.
<b>Pictogram (s)</b>	Exclamation mark



<b>Precautionary Statement – Prevention</b>	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash 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(f) Wear protective gloves/protective clothing/eye protection/face protection.
---	---

Infosafe No™ 3NUQS	Issue Date : February 2024	ISSUED by NUFARMNZ
--------------------	----------------------------	--------------------

Product Name **DICTATE™480**

**Precautionary Statement – Response**

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.  
P321 Specific treatment (see on this label).  
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.

**Precautionary Statement – Disposal**

P501 Dispose of contents/container to an approved landfill.

### Section 3 - Composition and Information on Ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Bentazone (present as the sodium salt)	50723-80-3	480 g/L
	Ingredients determined to be non-hazardous	-	Balance

### 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. Seek medical assistance. Remove contact lenses, if present and easy to do.

**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.

**Hazards from Combustion Products** If involved in a fire, the dehydrated components may emit carbon oxides, nitrogen oxides and sulphur oxides.

**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. Keep containers cool with water spray.

**Specific hazards arising from the chemical** Considered low risk due to water content, however upon evaporation of water the product is combustible.

Infosafe No™ 3NUQS	Issue Date : February 2024	ISSUED by NUFARMNZ
--------------------	----------------------------	--------------------

Product Name **Dictate™480**

**Decomposition Temperature** Information is not available.

**Other Information** Location Certificate: Not applicable  
Hazardous Atmosphere Zone: Not applicable  
Number of Fire Extinguishers: Not applicable

## Section 6 - Accidental Release Measures

**Spills and Disposal** 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.  
Wash area with water and detergent and absorb with inert material. Dispose of waste safely in an approved landfill.

**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** Avoid skin and eye contact and inhalation of spray mist.  
CERTIFIED HANDLER: Is not required.  
TRACKING: Is not required  
RECORD KEEPING: Not applicable  
BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.  
Do not allow drift to occur outside the target area.  
Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

**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 foodstuffs, fertilisers, pesticides and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 1,000L of Dictate 480 require secondary containment and are subject to signage, and more than 1,000L require emergency response plans.  
Do not store for prolonged periods in direct sunlight.  
Do not store below -5°C.

**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 exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

**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, washable hat, 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

Infosafe No™ 3NUQS	Issue Date : February 2024	ISSUED by NUFARMNZ
Product Name <b>Dictate™480</b>		

<b>Appearance</b>	Yellow brown
<b>Odour</b>	Faint odour
<b>Decomposition Temperature</b>	Information is not available.
<b>Solubility in Water</b>	Soluble
<b>pH</b>	6.5-9.5
<b>Vapour Pressure</b>	Not volatile
<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 is 0.77 (pH5), -0.46 @ (pH7), -0.55 (pH9) for bentazone
<b>Flash Point</b>	Information is not available.
<b>Flammability</b>	Not flammable
<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>Initial Boiling Point and Boiling Range</b>	Information is not available.
<b>Kinematic Viscosity</b>	Information is not available.
<b>Particle Characteristics</b>	Information is not available.
<b>Relative Density</b>	Information is not available.
<b>Melting/Freezing Point</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>Possibility of Hazardous Reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Not known to occur.

## Section 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 (mouse) = 400mg/kg for bentazone
<b>Acute Toxicity - Inhalation</b>	LC50 (4h) (rat) = >5.1mg/L air for bentazone
<b>Acute Toxicity - Dermal</b>	LD50 (rat) = 2,500mg/kg for bentazone
<b>Ingestion</b>	Possible symptoms of exposure include: headache, nausea, dizziness and weakness.
<b>Inhalation</b>	Symptoms of exposure by inhalation are similar to those described for ingestion.
<b>Skin Corrosion/Irritation</b>	May irritate the skin

Infosafe No™ 3NUQS	Issue Date : February 2024	ISSUED by NUFARMNZ
--------------------	----------------------------	--------------------

Product Name **Dictate™480**

<b>Serious Eye Damage/Irritation</b>	Irritating to eyes and mucous membranes
<b>Respiratory Sensitisation</b>	Information is not available.
<b>Skin Sensitisation</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<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 - Repeated Exposure</b>	Information is not available.
<b>Aspiration Hazard</b>	Information is not available.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for bentazone for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 10 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 4/2023).

## Section 12 - Ecological Information

<b>Persistence and Degradability</b>	Bentazone is not rapidly degradable DT50 (field, average) c. 12 days for bentazone
<b>Mobility</b>	Information is not available.
<b>Bioaccumulative Potential</b>	Bentazone is bioaccumulative Log Pow = 5.84
<b>Other Adverse Effects</b>	Information is not available.
<b>Basis for Assessment</b>	Ecotoxicological data have not been determined specifically for this product.
<b>Acute Toxicity - Fish</b>	LC50 (96h) for rainbow trout and bluegill sunfish = >100mg/L for bentazone
<b>Acute Toxicity - Daphnia</b>	LC50 (48h) = 125mg/L for bentazone
<b>Acute Toxicity - Algae</b>	EC50 (72h) Green algae (Ankistrodesmus) = 47.3mg/L for bentazone
<b>Acute Toxicity - Other Organisms</b>	Oral LD50 bobwhite quail = 1,140mg/kg for bentazone Not toxic to bees: LD50 (oral) = >100µg/bee for bentazone EC50 (14d) worms = >1,000mg/kg soil for bentazone

## 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>Storage and Transport</b>	Not classified as Dangerous Goods for transport in New Zealand.
<b>Other Information</b>	Do not carry more than 1L of Dictate 480 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

Infosafe No™ 3NUQS	Issue Date : February 2024	ISSUED by NUFARMNZ
--------------------	----------------------------	--------------------

Product Name **DICTATE™480**

---

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P8760 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 HSR000426 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 WARNING

---

## Section 16 - Any Other Relevant Information

---

**Date of preparation or last revision of SDS** July 2023.

**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.

...End Of MSDS...

© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.