

Infosafe No™ 3NUQS	Issue Date : July 2023	ISSUED by NUFARM
Product Name <b>Dictate™480</b>		

## 1. Identification

<b>GHS 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>E-mail Address</b>	nzinfo@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	Selective contact herbicide for the control of chamomiles, stinking mayweed, cleavers, storks-bill, 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.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	NON-DANGEROUS GOODS.
<b>Other Information</b>	6.1D acute toxicant, 6.4A eye irritant, 6.5B sensitiser, 9.1C aquatic toxicant, 9.3C terrestrial vertebrate toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation. May cause sensitisation from prolonged skin contact. ECOTOXIC Harmful to aquatic life with long-lasting effects. Harmful to terrestrial vertebrates. Selective herbicide - very toxic to some plant species.

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Bentazone (present as the sodium salt)	50723-80-3	480 g/L
	Ingredients determined to be non-hazardous	-	Balance

## 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.

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<b>Eye contact</b>	If a large area is affected seek medical assistance. 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.
<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>	If involved in a fire, the dehydrated components may emit carbon oxides, nitrogen oxides and sulphur oxides.
<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>Specific hazards arising from the chemical</b>	Considered low risk due to water content, however upon evaporation of water the product is combustible.
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

<b>Spills &amp; 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. Wash area with water and detergent and absorb with inert material. Dispose of waste safely in an approved landfill.
<b>Personal Protection</b>	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. 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 apply 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 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.
<b>Other Information</b>	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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## 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.
<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, washable hat, 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>	Yellow brown
<b>Odour</b>	Faint odour
<b>Solubility in Water</b>	Soluble
<b>pH</b>	6.5-9.5
<b>Vapour Pressure</b>	Not volatile
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 0.77 (pH5), -0.46 @ (pH7), -0.55 (pH9) for bentazone
<b>Flammability</b>	Not flammable
<b>Other Information</b>	(SL) Soluble concentrate

## 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.

## 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 - Dermal</b>	LD50 (rat) = 2,500mg/kg for bentazone
<b>Acute Toxicity - Inhalation</b>	LC50 (4h) (rat) = >5.1mg/L air 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 Sensitisation</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<b>Serious eye damage/irritation</b>	Irritating to eyes and mucous membranes
<b>Skin corrosion/irritation</b>	May irritate the skin
<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

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species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2014).

## 12. Ecological information

<b>Persistence and degradability</b>	Bentazone is not rapidly degradable DT50 (field, average) c. 12 days for bentazone
<b>Bioaccumulative Potential</b>	Bentazone is bioaccumulative Log Pow = 5.84
<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

## 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>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.

## 15. Regulatory information

<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 &amp; Labelling</b>	HARMFUL - keep out of reach of children
<b>Hazard Rating Systems</b>	NFPA/HMIS: 2-1-0

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	July 2013
<b>Contact Person/Point</b>	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
<b>Revisions Highlighted</b>	5 yearly review carried out. Various changes and updates made to document.  ...End Of MSDS...



# Safety Data Sheet

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