

Infosafe No™ 3NUYT	Issue Date : June 2017	ISSUED by NUFARM
--------------------	------------------------	------------------


 Product Name **DICTATE 480 Post-Emergence Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	DICTATE 480 Post-Emergence Herbicide
Product Code	0102
Product Type	Group C Herbicide
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on use	For the selective post-emergence control of certain broadleaf weeds in green (dwarf french) beans, navy (haricot) beans, peanuts, red kidney beans, red mexican beans and soybeans per the Directions for Use table on the label. Read the attached label booklet before using this product.
Other Information	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture	OT4 Acute Toxicity - Oral: Category 4 SS-1 Sensitization - Skin: Category 1 ED2A Eye Damage/Irritation: Category 2A
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
General Precautionary Statement (s)	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.
Pictogram (s)	Exclamation mark, The below pictogram(s) are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.
	
Precautionary statement – Prevention	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P261 Avoid breathing spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.
Other Information	Poisons Schedule S5

3. Composition/information on ingredients

Chemical Characterization	Liquid
----------------------------------	--------

Infosafe No™ 3NUYT	Issue Date : June 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

Product Name **DICTATE 480 Post-Emergence Herbicide**

Classified as hazardous

Bentazone (present as the sodium salt)	25057-89-0	480 g/L
Other ingredients (considered non-hazardous)		Balance

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty of water. Obtain medical advice.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and laundry before re-use. If irritation persists, seek medical advice.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting 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 sulfur oxides.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.

7. Handling and storage

Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Do not store below -5 °C. Protect from temperatures above 40°C. Properties of the product may change if stored above this temperature for extended periods.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been set for this product or the active ingredients.
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 cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Infosafe No™ 3NUYT	Issue Date : June 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

 Product Name **DICTATE 480 Post-Emergence Herbicide**

Classified as hazardous

Requirements Concerning Special Training	After each day's use, wash contaminated clothing and safety equipment. Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.
---	---

9. Physical and chemical properties

Form	Liquid
Appearance	Yellow brown liquid
Odour	Faint odour
Solubility in Water	Soluble in water.
Specific Gravity	1.16 - 1.22
pH	9 - 10 (1%)
Vapour Pressure	Not volatile
Partition Coefficient: n-octanol/water	Kow Log P is 0.77 (pH5), -0.46 @ pH7, -0.55 (pH9) for bentazone
Flammability	Non combustible material.
Other Information	pKa is 3.3 (24°C)

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Acute Toxicity - Oral	LD50 (rat) 1000 - 2000 mg/kg for the formulated product
Acute Toxicity - Dermal	LD50 (rat) >4000 mg/kg for the formulated product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >4.8 mg/l for the formulated product
Ingestion	Possible symptoms of exposure include: headache, nausea, dizziness and weakness.
Inhalation	Symptoms of exposure by inhalation are similar to those described for ingestion.
Skin	May irritate the skin.
Eye	May irritate the eyes.
Skin Sensitisation	Prolonged and repeated skin contact may result in skin sensitisation.
Reproductive Toxicity	Data indicates no teratogenic effects.
Serious eye damage/irritation	Not an eye irritant.
Mutagenicity	Data indicates no mutagenic effects.
Skin corrosion/irritation	Not a skin irritant.
Other Information	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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2016).

Infosafe No™ 3NUYT Issue Date : June 2017 ISSUED by NUFARM

Product Name **DICTATE 480 Post-Emergence Herbicide**

Classified as hazardous

12. Ecological information

Persistence and degradability	Half life in soil is typically 12 days.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	Not toxic to fish. LC50 (96hr) for rainbow trout is >100 mg/l for bentazone LC50 (96hr) for bluegill sunfish is >100 mg/l for bentazone
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is >500 mg/l for the formulation.
Acute Toxicity - Other Organisms	Not toxic to birds. LD50 for bobwhite quail is 1140 mg/kg for bentazone Bees: Not toxic to bees. LD50 >100 µg/bee.

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
Container Disposal	Do not use this container for any other purpose. Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

14. Transport information

Storage and Transport	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
------------------------------	--

15. Regulatory information

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
Poisons Schedule	S5
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 67641.

16. Other Information

Date of preparation or last revision of SDS	21/06/2017
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted	The SDS was reviewed. Minor changes were made to the information and product has been rebranded. ...End Of MSDS...



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NUYT

Issue Date : June 2017

ISSUED by NUFARM

Product Name **Dictate 480 Post-Emergence Herbicide**

Classified as hazardous

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 Acohs Pty Ltd.

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