

Infosafe No™ 3NUO6	Issue Date : July 2015	ISSUED by NUFARM
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 Product Name **BATON Low Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	BATON Low Herbicide
<b>Product Code</b>	0170
<b>Product Type</b>	Group I Herbicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the control of broadleaved weeds in fallow before direct drilling or sowing of cereals and pastures; and in cereal crops, pastures, sugar cane, peanuts and non agricultural areas as per the Directions for Use table on the label. This is a PHENOXY HERBICIDE that can cause severe damage to susceptible crops such as cotton, grapes, tomatoes, oil seed crops and ornamentals.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	ED1 Eye Damage/Irritation: Category 1 OT4 Acute Toxicity - Oral: Category 4
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H318 Causes serious eye damage. H302 Harmful if swallowed.
<b>General Precautionary Statement (s)</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>	Corrosion, Exclamation mark



<b>Precautionary statement – Prevention</b>	P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
<b>Precautionary statement – Response</b>	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. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.
<b>Other Information</b>	Poisons Schedule S6

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	2,4-D (present as dimethylamine salt)	94-75-7	800 g/kg

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Other ingredients (considered non-hazardous)	Balance
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#### 4. First-aid measures

<b>Ingestion</b>	Rinse mouth and then drink plenty of water. If vomiting occurs, give more water to drink to assist dilution. Do not give anything by mouth to a semi-conscious or unconscious person. Obtain medical advice. Not a likely route of exposure; the product is handled in a water soluble bag.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<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</b>	May emit toxic fumes of hydrogen chloride, phosgene or amines if involved in fires or exposed to extreme heat.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus must be worn when fighting a fire in which this product is involved.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

#### 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8. If product has spilt from water soluble bags and the possibility of dust generation exists, wear a suitable respirator.
<b>Environmental Precautions</b>	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

#### 7. Handling and storage

<b>Precautions for Safe Handling</b>	Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers. The product is handled in a water soluble bag.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.
<b>Tank Cleaning</b>	Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot soapy water or 1% solution of ammonia, followed by several clear water rinses.
<b>Other Information</b>	Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning. Care should be taken especially where capeweed, Paterson's curse and variegated thistles predominate in the pasture. Always read the label and any attached leaflet before use.

#### 8. Exposure controls/personal protection

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<b>Occupational exposure limit values</b>	Safe Work Australia has set the following exposure standard for 2,4-D acid (solid) : TLV (TWA) 10 mg/m <sup>3</sup> , STEL -.
<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 cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
<b>Requirements Concerning Special Training</b>	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

<b>Form</b>	Solid
<b>Appearance</b>	Brown powder
<b>Odour</b>	Fish like odour
<b>Solubility in Water</b>	Soluble in water.
<b>Vapour Pressure</b>	0.019 mPa (2,4-D acid, 25°C)
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is -1.01 (pH9, 25°C)
<b>Flammability</b>	Non combustible material.
<b>Other Information</b>	pKa is 2.77

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Prolonged heating of the solid will slowly release dimethylamine.
<b>Incompatible Materials</b>	Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D and largely de-activate the product and cause blockages in spray equipment. The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour. Dimethylamine vapour is moderately toxic, LD50 (oral, rat) is 660 mg/kg and a TLV of 2 ppm (TWA) has been set.
<b>Possibility of hazardous reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 652 mg/kg for the formulated product
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for the formulated product
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) no mortality at 2.06 mg/l for the formulated product
<b>Ingestion</b>	Not a likely route of exposure. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination. Handling the product in its water soluble packing avoids any risk of dust formation and inhalation or ingestion.
<b>Inhalation</b>	Not a likely route of exposure when handling the concentrate. Symptoms of exposure by inhalation are similar to those described for

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<b>Skin</b>	ingestion. Prolonged contact with the concentrate may cause irritation. Prolonged contact with the concentrate may result in absorption of 2,4-D in harmful amounts.
<b>Eye</b>	A severe eye irritant. Prolonged contact with the concentrate may cause damage to the eye.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Carcinogenicity</b>	The weight of the evidence is that 2,4-D is not carcinogenic.
<b>Chronic Effects</b>	Chronic Overexposure: Repeated absorption of relatively large amounts of 2,4-D presents a risk to the liver and kidneys.
<b>Serious eye damage/irritation</b>	This product is a severe eye irritant.
<b>Skin corrosion/irritation</b>	Expected to be slightly irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for 2,4-D for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 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 2011).

## 12. Ecological information

<b>Persistence and degradability</b>	Half life (DT50) in soil for 2,4-D is typically <7 days. Readily biodegradable (OECD 301F).
<b>Other Precautions</b>	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Spray drift can cause damage, read the label for more information.
<b>Environmental Protection</b>	
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for zebrafish is >1000 mg/l for the formulated product LC50 (96hr) for rainbow trout is 100 mg/l for 2,4-D dimethylamine salt
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is >1128 mg/l for the formulated product.
<b>Acute Toxicity - Other Organisms</b>	Birds: Not toxic to birds. LD50 for japanese quail is 400 mg/kg Bees: Not toxic to bees. LD50 94 µg/bee.

## 13. Disposal considerations

<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## 14. Transport information

<b>Storage and Transport</b>	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.  This product is not a dangerous good for transport by sea, by the criteria set out in the IMDG Code (2014 edition).
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## 15. Regulatory information

<b>Poisons Schedule</b>	S6
<b>Packaging &amp; Labelling</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 46314.



# Safety Data Sheet

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## 16. Other Information

**Date of preparation or last revision of SDS** Reviewed 02/07/2015  
This SDS replaces document dated May 2012.

**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.  
Clarify Transport Information  
...End Of MSDS...

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