

Infosafe No™ 3NV2I	Issue Date : May 2024	ISSUED by NUFARMNZ
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 Product Name **BATON®800WSG**

Section 1 - Identification

Product Identifier	BATON®800WSG
Product Code	00826
Product Type	Herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	Non-volatile 2,4-D soluble granules for broadleaf weed control in cereals and new and established pasture.
Other Information	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

GHS classification of the substance/mixture	Acute oral toxicity: Category 4 Acute inhalation toxicity: Category 4 Eye irritation Category 2 Skin sensitization: Category 1 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 acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H372 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to soil environment. H432 Toxic to terrestrial vertebrates.
Precautionary Statement – General	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.
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	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. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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Precautionary Statement – Response P302+P352 IF ON SKIN: Wash with plenty of water.
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Precautionary Statement – Disposal P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization Solid

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	2,4-D (present as the dimethylamine salt)	2008-39-1	800g/kg
	Other ingredients (considered non-hazardous)		Upto 100%

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.
Remove contact lenses, if present and easy to do.
Seek medical assistance even if there are no immediate symptoms.

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 May emit toxic fumes of hydrogen chloride, phosgene or amines if involved in fires or exposed to extreme heat.

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.

Hazchem Code 2X

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

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Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

Section 7 - Handling and Storage

Precautions for Safe Handling	<p>The person mixing or applying BATON 800WSG must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. For more information refer to the Hazardous Substances Property Controls Notice 2017. 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.</p> <p>Avoid skin and eye contact and inhalation of spray mist or dust. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Application to drains, ditches and irrigation channels must only be made when these waterways are dry and at least one month is allowed to elapse before the channels are used to carry water. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals, must be kept if 3kg or more of BATON 800WSG is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.</p>
Conditions for safe storage, including any incompatibilities	<p>Keep out of reach of children.</p> <p>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.</p> <p>Stores containing 100kg of BATON 800WSG are subject to signage, and more than 1,000kg require emergency response plans.</p>
Other Information	<p>Always read the label and any attached leaflet before use.</p> <p>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.</p>

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	<p>No exposure standards have been set for this product.</p> <p>WES TWA for 2,4-D(CAS 94-75-7) = 10 mg/m³ WES TWA for Dimethylamine = 18 mg/m³ and vapour = 10ppm</p>
Appropriate Engineering Controls	<p>Handle in well ventilated areas, generally natural ventilation is adequate.</p> <p>Avoid generation of dust when handling solid. If dust generation is unavoidable, use forced draft to keep dust away from operator, or wear suitable dust respirator.</p>
Personal Protective Equipment	<p>When opening the container, preparing spray and using the prepared spray wear safety goggles, washable hat, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.</p>
Hygiene Measures	<p>Do not eat, drink or smoke while using.</p> <p>Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.</p>

Section 9 - Physical and Chemical Properties

Form	Solid
Appearance	White to yellow columnar granule.

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 Product Name **BATON®800WSG**

Odour	Weak.
Decomposition Temperature	Information is not available.
Melting Point	140°C (2,4-D acid)
Solubility in Water	Soluble in water.
pH	4.0-6.0 (1% solution)
Vapour Pressure	1.9 x 10 ⁻⁵ Pa (2,4-D acid, 25°C)
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow Log P is -1.01 (pH9, 25°C)
Density	0.50-0.54 g/ml
Flash Point	Not flammable
Flammability	Non flammable.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Explosion Properties	Not explosive
Oxidising Properties	Not oxidising
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Data not available.
Particle Characteristics	Information is not available.
Relative Density	Information is not available.
Other Information	Water Soluble Granule.

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Prolonged heating of the solid will slowly release dimethylamine.
Incompatible Materials	<p>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.</p> <p>The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour.</p> <p>Dimethylamine is moderately toxic, LD50 (oral, rat) is 660 mg/kg and a TLV of 2 ppm (TWA) has been set.</p>
Possibility of Hazardous Reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

Section 11 - Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute Toxicity - Oral	LD50 (rat) 949 mg/kg for 2,4-D dimethylamine salt

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Acute Toxicity - Inhalation	LC50 (rat) (4hr) >3.5 mg/l for 2,4-D dimethylamine salt
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for 2,4-D dimethylamine salt
Ingestion	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.
Inhalation	Not a likely route of exposure when handling the concentrate. Symptoms of exposure by inhalation are similar to those described for ingestion.
Skin	Prolonged contact with the concentrate may cause irritation. Prolonged contact with the concentrate may result in absorption of 2,4-D in harmful amounts.
Eye	Will irritate the eyes. Prolonged contact with the concentrate may cause damage to the eye.
Skin Corrosion/Irritation	Not a skin corrosive.
Serious Eye Damage/Irritation	Severe irritant
Skin Sensitisation	Prolonged and repeated skin contact may result in skin sensitisation.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	The weight of the evidence is that 2,4-D is not carcinogenic.
Reproductive Toxicity	Information is not available.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	Information is not available.
Chronic Effects	Chronic Overexposure: Repeated absorption of relatively large amounts of 2,4-D presents a risk to the liver and kidneys.
Other Information	The Australian Acceptable Daily Intake (ADI) for 2,4-D for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 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

Persistence and Degradability	2,4-D dimethylamine salt is not rapidly degradable
Mobility	Information is not available.
Bioaccumulative Potential	2,4-D dimethylamine salt is not bioaccumulative
Other Precautions	Do not spray in high winds. 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	LC50 (96hr) for zebrafish is >1000 mg/l for formulated product LC50 (96hr) for rainbow trout is 100 mg/l for 2,4-D dimethylamine salt
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is >1,128 mg/l for the formulated product.
Acute Toxicity - Algae	EC50 for Selenastrum capricornutum = 51.2 mg/L for 2,4-D Chronic NOEC (14d) for duckweed = 0.27mg/L for 2,4-D dimethylamine salt

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Acute Toxicity - Other Organisms Birds: Not toxic to birds. Oral LD50 bobwhite quail is 500mg/kg for 2,4-D dimethylamine salt
 Bees: Not toxic to bees. LD50 (contact) >100µg/bee, (oral) c. 94µg/bee for 2,4-D dimethylamine salt

Section 13 - Disposal Considerations

Product Disposal To avoid disposal all attempts should be made to utilise the product completely in accordance with it's registered use. Dilute unusable product according to the label and pour onto fallow land. Prevent the product entering natural water sources.

Container Disposal Ensure container is completely empty. Crush and bury in a suitable landfill.

Section 14 - Transport Information

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

UN Number 3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (contains 2,4-D)

Hazard Class 9

Hazchem Code 2X

Packaging Method -

Packing Group III

EPG Number -

IERG Number 47

IMO Marine Pollutant Yes. Environmentally Hazardous Substance mark required.

IMDG EMS F-A, S-F

Other Information Do not carry this product 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

National and or International Regulatory Information Registered pursuant to the ACVM Act 1997, No. P9585
 See www.foodsafety.govt.nz for registration conditions
 Approved pursuant to the HSNO Act 1996, Approval Code HSR100573
 See www.epa.govt.nz for approval controls.

Packaging and Labelling DANGER
 KEEP OUT OF REACH OF CHILDREN
 READ LABEL BEFORE USE

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS September 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...



Material Safety Data Sheet

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