

Infosafe No™ 3NV56	Issue Date : September 2024	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

 Product Name **NUFARM IMAGE®**

Section 1 - Identification

Product Identifier	NUFARM IMAGE®
Product Code	00348
Product Type	Selective 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	Selective herbicide for broad-spectrum broadleaf weed control in cereals, ryegrass seedcrops and turf grasses.
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 Skin corrosion/irritation: Category 2 Eye irritation Category 2 Skin sensitization: Category 1 Reproductive toxicity: Category 2 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 H315 Causes skin irritation H319 Causes serious eye irritation H317 May cause an allergic skin reaction H361 Suspected of damaging fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects H421 Very toxic to the 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 label before use
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area.
---	---

Infosafe No™ 3NV56	Issue Date : September 2024	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

Product Name **NUFARM IMAGE®**

Precautionary Statement – Response	<p>P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P273 Avoid release to the environment.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.</p> <p>P330 Rinse mouth.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P391 Collect spillage.</p> <p>P405 Store locked up.</p>
Precautionary Statement – Storage	
Precautionary Statement – Disposal	<p>P501 Dispose of contents/container to an approved landfill.</p>

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Bromoxynil (present as the octanoate ester)	1689-99-2	120 g/L
	Ioxynil (present as octanoate ester)	3861-47-0	120 g/L
	Mecoprop-P (as the ethyl hexyl ester)	861229-15-4	360g/L

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. Do not scrub the skin.
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

Infosafe No™ 3NV56	Issue Date : September 2024	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

Product Name **NUFARM IMAGE®**

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Unsuitable Extinguishing Media	Do not use water in a jet.
Hazards from Combustion Products	Hydrochloric, chlorine or carbon monoxide gases may form.
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	2Z
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 liquid 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.
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.

Section 7 - Handling and Storage

Precautions for Safe Handling	Do not handle until all safety precautions have been read and understood. The person mixing or applying NUFARM IMAGE must be a 'Qualified Contractor' or '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. Avoid skin and eye contact and inhalation of spray mist. Do not apply directly into or onto water. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. 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 3 litres or more of NUFARM IMAGE is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.
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 and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of NUFARM IMAGE require secondary containment and are subject to signage, and more than 100L require emergency response plans.
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

Infosafe No™ 3NV56	Issue Date : September 2024	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

Product Name **NUFARM IMAGE®**

Occupational Exposure Limits (OEL)	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate Engineering Controls	Use in a well ventilated area only. Local exhaust ventilation may be required in confined spaces.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, 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.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Brown liquid.
Odour	Odourless
Decomposition Temperature	Information is not available.
Melting Point	Bromoxynil Octanoate 45.3°C Ioxynil Octanoate (tech.) 207.8°C (sublimes at c.140°C/0.1mmHg) Mecoprop-P-2-ethylhexyl <20°C
Boiling Point	Bromoxynil Octanoate decomp. from 180°C Ioxynil Octanoate decomp. from 218°C Mecoprop-P-2-ethylhexyl >230°C
Solubility in Water	Forms an emulsion in water.
pH	4-5 (1% aqueous)
Vapour Pressure	Bromoxynil Octanoate <1 x 10 ⁻⁴ mPa (40°C) Ioxynil Octanoate <0.9 x 10 ⁻⁴ mPa (45°C) Mecoprop-P 0.24 x 10 ⁻¹ mPa(20°C)
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow LogP for: Bromoxynil Octanoate = 5.9 (pH7, 25°C) Ioxynil Octanoate = 6.0 Mecoprop-P-2-ethylhexyl >3.77 (pH7)
Density	1.152g/ml typically.
Flash Point	>100°C
Flammability	Not flammable.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Oxidising Properties	Not oxidising.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(EC) Emulsifiable concentrate

Section 10 - Stability and Reactivity

Infosafe No™ 3NV56	Issue Date : September 2024	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

 Product Name **NUFARM IMAGE®**

Chemical Stability Stable under normal conditions of handling and storage.

Conditions to Avoid Strong alkalis. Oxidising agents.

Section 11 - Toxicological Information

Acute Toxicity - Oral LD50 (rat) = 687mg/kg for a similar product.

Acute Toxicity - Dermal LD50 (rat) = >2000mg/kg for a similar product.

Skin Causes skin irritation.

Corrosion/Irritation

Serious Eye Causes serious eye irritation.

Damage/Irritation

Skin Sensitisation May cause an allergic skin reaction.

Germ Cell Information is not available.

Mutagenicity

Carcinogenicity Information is not available.

Reproductive

Toxicity Suspected of damaging fertility or the unborn child.

STOT - Single Information is not available.

Exposure

STOT - Repeated Causes damage to organs through prolonged or repeated exposure.

Exposure

Aspiration Hazard Information is not available.

Chronic Effects May cause liver, kidney and other target organ damage from repeated oral exposure at high doses.

Section 12 - Ecological Information

Persistence and Degradability Bromoxynil octanoate rapidly degrades to the phenol by aqueous photolysis, DT50 4-5h; moderately stable to hydrolysis, DT50 11d (pH7). Ioxynil octanoate is stable to storage, but readily hydrolysed by alkali. Mecoprop-P soil DT50 (aerobic) 3-13d.

Mobility Information is not available.

Bioaccumulative Potential Information is not available.

Acute Toxicity - Fish LC50 (96h) = 0.12mg/L NOEC (96h) = 0.048mg/L for a similar product.

Acute Toxicity - Daphnia EC50 (48h) = 73 µg/L NOEC (48h) = 25µg/L for a similar product.

Acute Toxicity - Algae EbC50 (72h) = 0.35mg/L NOECb (72h) = 0.094mg/L for a similar product. ErC50 (72h) = 1.5mg/L NOECOr (72h) = 0.21mg/L for a similar product.

Acute Toxicity - Other Organisms Plants: EC25 (7d) tomato = 0.005mg/kg soil for bromoxynil octanoate
Birds: LD50 (10d) Japanese quail = 100mg/kg for bromoxynil octanoate
NOEL mallard duck = 105ppm for bromoxynil octanoate

Section 13 - Disposal Considerations

Product Disposal Dispose of product only by using according to the label, or at an approved landfill.

Container Disposal 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

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

UN Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (bromoxynil, ioxynil and mecoprop-p)

Infosafe No™ 3NV56	Issue Date : September 2024	ISSUED by NUFARMNZ
--------------------	-----------------------------	--------------------

Product Name **NUFARM IMAGE®**

Hazard Class	9
Hazchem Code	2Z
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. P9790 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR101417 See www.epa.govt.nz for approval controls.
---	---

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	August 2020.
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	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.