

Infosafe No™ 3NV56	Issue Date : August 2020	ISSUED by NUFARMNZ
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 Product Name **NUFARM IMAGE®**

1. Identification

GHS Product Identifier	NUFARM IMAGE®
Product Code	00348
Product Type	Selective herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
E-mail Address	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	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.

2. Hazard Identification

GHS classification of the substance/mixture	Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H313 May be harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. 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)	Exclamation mark, Health hazard, Environment



Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.
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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. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. P308+P313 IF exposed or concerned: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P391 Collect spillage. P405 Store locked up.
Precautionary statement – Storage	
Precautionary statement – Disposal	P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	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

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 contact	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.

5. Fire-fighting measures

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.

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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 Temp.	Data not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & 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.

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. CERTIFIED HANDLER: Not required. TRACKING: Is not required. RECORD KEEPING: Records of use as described in the NZS 8409 Management of Agrichemicals must be kept. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.
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.

8. Exposure controls/personal protection

Occupational exposure limit values	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.

9. Physical and chemical properties

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Form	Liquid
Appearance	Brown liquid
Odour	Odourless
Decomposition Temperature	Data not available.
Melting Point	Property does not apply.
Freezing Point	Data not available.
Boiling Point	Data not available.
Solubility in Water	Forms an emulsion in water.
pH	4-5 (1% aqueous)
Vapour Pressure	Bromoxynil Octanoate 1×10^{-4} mPa (40°C) , Ioxynil Octanoate 0.9×10^{-4} mPa (45°C) , Mecoprop-P 0.23mPa (20°C)
Vapour Density (Air=1)	Data not available.
Partition Coefficient: n-octanol/water	Kow LogP = Bromoxynil Octanoate (5.9 pH7 @ 25°C) , Ioxynil Octanoate (6) , Mecoprop-P-2-ethylhexyl (>3.77 pH7)
Density	1.152 g/ml typically
Flash Point	>100°C
Flammability	Not flammable.
Auto-Ignition Temperature	Data not available.
Flammable Limits - Lower	Not applicable.
Flammable Limits - Upper	Not applicable.
Oxidising Properties	Not oxidising
Kinematic Viscosity	Data not available.
Other Information	(EC) Emulsifiable concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Strong alkalis. Oxidising agents.

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 Sensitisation	May cause sensitisation from prolonged skin contact.
Germ cell mutagenicity	Information not available.
Carcinogenicity	Information not available.
Reproductive Toxicity	Possible risk of harm to the unborn child (bromoxynil octanoate, ioxynil octanoate)
STOT-repeated exposure	Causes target organ damage from repeated oral exposure at high doses.
Aspiration Hazard	Information not available.
Chronic Effects	May cause liver, kidney and other target organ damage from repeated oral exposure at high doses.

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Serious eye damage/irritation Causes serious eye irritation.

Respiratory Irritation Information not available.

Skin corrosion/irritation Causes skin irritation.

12. Ecological information

Persistence and degradability Bromoxynil octanoate is not rapidly degradable

Mobility Ioxynil has low mobility.

Bioaccumulative Potential Bromoxynil octanoate is not bioaccumulative

Basis for Assessment Information given is based on data for a similar product.

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

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.

14. Transport information

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

U.N. Number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (bromoxynil 12%, ioxynil 12%)

Transport hazard class(es) 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.

15. Regulatory information

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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.

16. Other Information

Date of preparation or last revision of SDS 20/08/2020

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 Not applicable (first issue).

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