

Infosafe No™ 3NU9N	Issue Date : April 2017	ISSUED by NUFARMNZ
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 Product Name **IMAGE®**

1. Identification

GHS Product Identifier	IMAGE®
Product Code	00347
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 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nz.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

Other Information	6.1D acute toxicant, 6.4A eye irritant, 6.5B sensitiser, 6.8B reproductive or developmental toxicant, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation. May cause sensitisation from prolonged skin contact. May cause liver, kidney and other target organ damage from repeated oral exposure at high doses. ECOTOXIC Very toxic to the soil environment. Very toxic to aquatic organisms. Harmful to terrestrial vertebrates.
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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	Name	CAS	Proportion
	Mecoprop-P (as the butoxyethyl ester)	23359-62-8	360 g/L
	Bromoxynil (present as the octanoate ester)	1689-99-2	120 g/L
	Ioxynil as the Octanoate Ester	3861-47-0	120 g/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.

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Eye contact	If a large area is affected seek medical assistance. Do not scrub the skin. Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do.
First Aid Facilities	Seek medical assistance even if there are no immediate symptoms. 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.
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
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	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler if applied in a wide dispersive manner, or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours. 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 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.

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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

Form	Liquid
Appearance	Brown liquid
Solubility in Water	Forms an emulsion in water.
Specific Gravity	1.182
pH	2.5-4.5 (1% aqueous)
Flash Point	>100°C
Oxidising Properties	Not oxidising
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 Image
Acute Toxicity - Dermal	LD50(rat) = >2000mg/kg for Image
Eye	May cause eye irritation and possibly corneal opacity (bromoxynil octanoate).
Skin Sensitisation	May cause sensitisation from prolonged skin contact.
Reproductive Toxicity	Possible risk of harm to the unborn child (bromoxynil octanoate, ioxynil octanoate)
Chronic Effects	May cause liver, kidney and other target organ damage from repeated oral exposure at high doses.

12. Ecological information

Persistence and degradability	Bromoxynil octanoate is not rapidly degradable
Bioaccumulative Potential	Bromoxynil octanoate is not bioaccumulative
Basis for Assessment	Information given is based on product data.
Acute Toxicity - Fish	LC50(96h) = 0.12mg/L NOEC (96h) = 0.048mg/L for Image
Acute Toxicity - Daphnia	EC50 (48h) = 73 µg/L NOEC (48h) = 25µg/L for Image
Acute Toxicity - Algae	EbC50 (72h) = 0.35mg/L NOECb (72h) = 0.094mg/L for Image ErC50 (72h) = 1.5mg/L NOECOr (72h) = 0.21mg/L for Image
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.
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Safety Data Sheet

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Product Name **IMAGE®**

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	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.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P5951 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000377 See www.epa.govt.nz for approval controls.
Packaging & Labelling	HARMFUL * ECOTOXIC - keep out of reach of children
Hazard Rating Systems	NFPA/HMIS: 2-1-1

16. Other Information

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	5 yearly review carried out. Various changes and updates made to document.
Other Information	Supersedes SDS issued February 2012 ...End Of MSDS...

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