

Infosafe No™ 3NV3P Issue Date : May 2019 ISSUED by NUFARM

Product Name **Nufarm Maya Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	Nufarm Maya Herbicide	
Product Code	0981	CA2239
Product Type	Group C Herbicide	
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)	
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia	
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001	
Emergency phone number	1800 033 498 (24hr Australia)	
Recommended use of the chemical and restrictions on use	Unregistered product. For use under APVMA Permit PER87914 only for the control of broadleaf weeds in bulb onions. Read complete directions for use before using this product.	
Other Information	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

GHS classification of the substance/mixture	OT4 Acute Toxicity - Oral: Category 4 IT 4 Acute Toxicity - Inhalation: Category 4 SS-1 Sensitization - Skin: Category 1 TR1 Toxic to Reproduction: Category 1 AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H410 Very toxic to aquatic life with long lasting effects.
General Precautionary Statement (s)	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, Exclamation mark, Environment, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P261 Avoid breathing spray. 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, clothing, eye and face protection.
Precautionary statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 Poisons Schedule S6

Other Information
3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Bromoxynil (385.5 as bromoxynil butyrate)		402 g/L
	Anionic Surfactant		0-10 %
	Propane-1,2-diol	57-55-6	0-10 %
	Other ingredients (considered non-hazardous)		30-60 %

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. Obtain medical advice.
Ingestion	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. If irritation persists consult a doctor.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, the dried deposit may emit oxides of carbon and nitrogen, hydrogen chloride, hydrogen bromide and possibly other compounds of bromine, chlorine and nitrogen.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.
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7. Handling and storage

Precautions for Safe Handling	For personal protective equipment (PPE) and hygiene advice, refer Section 8.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
Tank Cleaning	See label for detailed information on cleaning of spray equipment.
Other Information	Always read the label and any attached leaflet before use.

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8. Exposure controls/personal protection

Occupational exposure limit values	An occupational exposure limit has been set for propane-1,2-diol at 474 mg/m ³ ; 150ppm TWA.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When preparing and using the product wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield. Re-entry Period - Do not allow entry into treated areas for 2 days after treatment. When prior entry is necessary, wear all protective clothing and chemical resistant gloves. Read the label for any other instructions.
Hygiene Measures	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.

9. Physical and chemical properties

Form	Liquid
Appearance	Beige Liquid
Odour	Butyric
Solubility in Water	Disperses in water.
Specific Gravity	1.2
pH	3.9 (1% in water)
Vapour Pressure	0.19 mPa @ 25°C for bromoxynil octanoate
Volatile Component	~60%
Partition Coefficient: n-octanol/water	Kow Log P is 5.4 for bromoxynil octanoate
Auto-Ignition Temperature	Not determined

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	Keep away from strong oxidising agents, may react violently.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) <2000 mg/kg
Acute Toxicity - Dermal	LD50 (rat) >2000mg/kg
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >1.25 mg/l
Ingestion	Possible symptoms of exposure include: headache, nausea, dizziness and weakness.
Inhalation	Symptoms of exposure by inhalation are similar to those described for ingestion.
Skin	May irritate the skin.
Eye	May irritate the eyes.
Skin Sensitisation	This product is a skin sensitiser.
Reproductive Toxicity	Bromoxynil esters have been classified as suspected reproductive toxicants, effecting development, based on studies on experimental animals.
Chronic Effects	Chronic Overexposure: Weight loss and damage to liver and kidneys may be expected if exposure is excessive.
Other Information	The Australian Acceptable Daily Intake (ADI) for bromoxynil for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is

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based on the NOEL of 0.3 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', June 2018).

12. Ecological information

Persistence and degradability	Average soil half life of bromoxynil is 7 days.
Known Harmful Effects on the Environment	Harmful to fish and other aquatic organisms.
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	Marine pollutant. Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	The following is data for the active ingredient, bromoxynil octanoate. Toxic to fish. LC50 (96hr) for rainbow trout is 0.041 mg/l.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 0.046 mg/l for bromoxynil octanoate.
Acute Toxicity - Other Organisms	Bees: Not toxic to bees. LD50 >100 µg/bee.

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable.
Container Disposal	Do not use this container for any other purpose. Empty containers and product should not be burnt.

14. Transport information

Storage and Transport	Exempt from classification as a Dangerous Good in packs less than 3,000 kg or L as per ADG7, SP no. AU01. For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.
UN Number (Sea Transport)	3082
IMO Class/Packing Group	Class 9; Packing Group III
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Bromoxynil butyrate)

15. Regulatory information

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
Poisons Schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

16. Other Information

Date of preparation or last revision of SDS	28/05/2019
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498 First Issue
Revisions Highlighted	...End Of MSDS...



Safety Data Sheet

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