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Infosafe No™ NU017 Issue Date : March 2021 ISSUED by NUFARM

Product Name BROMICIDE MA Selective Herbicide

Classified as hazardous

1. Identification

GHS Product

BROMICIDE MA Selective Herbicide

Identifier

0220 **Product Code**

Product Type Group C I Herbicide

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780) Company Name

103-105 Pipe Road Laverton North Address

Telephone/Fax

Tel: +61 3 9282-1000

Victoria 3026 Australia

Number

Emergency phone 1800 033 498 (24hr Australia)

number

E-mail Address SDSANZ@nufarm.com

the chemical and restrictions on use

Recommended use of For the control of weeds in wheat, oats, barley, cereal rye, triticale, linseed, grass pastures and turf as per the Directions for Use table on the

DANGER

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

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and

substance/mixture

Safety regulations, Australia. Reproductive toxicity: Catergory 2 Skin sensitization: Catergory 1 Acute toxicity: Catergory 4 - Oral Acute toxicity: Catergory 4 - Inhalation Serious eye irritation: Catergory 1 Skin corrosion/irritation: Catergory 3

Aspiration hazard: Catergory 1 Flammable liquids: Catergory 4

Hazardous to the aquatic environment, long-term (Chronic): Catergory Chronic 1

Signal Word (s)

Hazard Statement (s) H361 Suspected of damaging fertility or the unborn child

H317 May cause an allergic skin reaction

H302 Harmful if swallowed H332 Harmful if inhaled H318 Causes serious eye damage H316 Causes mild skin irritation

H304 May be fatal if swallowed and enters airways

H227 Combustible liquid

H410 Very toxic to aquatic life with long lasting effects

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) Corrosion, Exclamation mark, Health hazard, Environment









Precautionary statement -

P280 Wear protective gloves, clothing, eye and face protection.

P261 Avoid breathing mists and spray.

P272 Contaminated work clothing should not be allowed out of the workplace. Prevention

P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.





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P271 Use only outdoors or in a well-ventilated area.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 Avoid release to the environment.

Precautionary statement – Response

Other Information

P308+P313 IF exposed or concerned: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

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.

Poisons Schedule S6

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Liquid Hydrocarbon	64742-94-5	343 g/L
	MCPA (present as the ethyl hexyl ester)	94-74-6	200 g/L
	Bromoxynil present as the n-octanoyl ester	1689-99-2	200 g/L
	Proprietary surfactant mixture		5-10 %

4. First-aid measures

Ingestion

Inhalation	Remove	affected	person	to	fresh	air	until	recovered.	Ιf	symptoms	develop	or
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persist, seek medical advice.

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.

Wash affected areas thoroughly with soap and water. Skin

If in eyes, hold eyelids open and wash with copious amounts of water for at Eye contact

least 15 minutes.

Seek medical advice if irritation develops or persists.

Treat symptomatically. **Advice to Doctor**

If vomiting occurs, solvent present may cause pulmonary pneumonitis.

5. Fire-fighting measures

Water fog, foam, carbon dioxide or dry chemical. Suitable

extinguishing media

Although material is not flammable, the concentrate is combustible. Hazards from If involved in a fire, it will emit harmful fumes of hydrogen bromide, Combustion

hydrogen chloride, hydrogen cyanide and possibly other compounds of bromine, **Products**

chlorine and nitrogen.

Keep upwind.

Special Protective Equipment for fire Breathable air apparatus may have to be worn in confined spaces.

fighters

3zHazchem Code

STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. Other Information

6. Accidental release measures

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such Spills & Disposal

as vermiculite).

Collect spilled material and waste in sealable open-top type containers for disposal.





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For appropriate personal protective equipment (PPE), refer Section 8. **Personal Protection**

Clean-up Methods -Large Spillages

If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas, as possible, before absorbing remaining material into

vermiculite or other absorbent.

This product is a herbicide and spills can damage crops, pastures and **Environmental**

desirable vegetation. **Precautions**

7. Handling and storage

Do NOT contaminate dams, rivers or streams, or any other water bodies with **Precautions for Safe**

pesticide or used containers. Handling

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.

Other Information Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

No exposure standard has been established for this product. **Occupational**

The manufacturer of the solvent has recommended an occupational exposure exposure limit values

limit of 100 mg/m3; 17ppm TWA, as total hydrocarbon.

Appropriate

Handle in well ventilated areas, generally natural ventilation is adequate.

engineering controls

Do not inhale spray mist. Respiratory

Protection

Equipment

When opening the container, preparing spray and using the prepared spray wear **Personal Protective**

cotton overalls buttoned to the neck and wrist and a washable hat,

elbow-length PVC gloves and goggles.

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.

Requirements **Concerning Special** Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

Training

9. Physical and chemical properties

Liquid Form

Dark brown liquid **Appearance** Typical solvent odour Odour

<0 C **Melting Point**

190 - 270°C for solvent **Boiling Point** Solubility in Water Disperses in water.

1.07 - 1.09 **Specific Gravity**

3.5 - 4.0 (1% solution) рH

0.19 mPa @ 25°C Bromoxynil octanoate: Vapour Pressure

0.48 mPa @ 20°C MCPA 2EHE. ~ 5 (for solvent present)

Vapour Density (Air=1)

30 - 40%

Volatile Component

Partition Coefficient:

n-octanol/water

Kow Log P is 5.4 for bromoxynil octanoate; 5.7 for MCPA 2EHE

75°C **Flash Point**

Combustible liquid C1. (AS1940 - 2017). Combustible Liquid (GHS). **Flammability**

Not determined **Auto-Ignition**

Temperature





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Flammable Limits -

Lower

0.6% for solvent

Flammable Limits -

7.0% for solvent

Upper

Explosion Properties No information

10. Stability and reactivity

Stable under normal conditions. **Chemical Stability**

Possibility of hazardous reactions Violent reactions between Bromicide MA and oxidising agents are possible. Avoid chlorates, nitrates, nitric acid, organic peroxides and potassium

chlorate.

Hazardous

Hazardous polymerisation is not possible.

Polymerization

11. Toxicological Information

Acute Toxicity - Oral LD50 (rat) 238 mg/kg for bromoxynil octanoate

LD50 (rat) 1300 mg/kg for MCPA 2EHE

Acute Toxicity -

>2000 mg/kg for bromoxynil octanoate LD50 (rat)

LD50 (rat) >2000 mg/kg for MCPA 2EHE

Dermal Acute Toxicity -

LC50 (rat) (4hr) 0.72 mg/l for bromoxynil octanoate

Inhalation

LC50 (rat) (4hr) > 3.1 mg/l for MCPA 2EHE

Ingestion

Possible symptoms of exposure include: headache, nausea, dizziness and

weakness.

If aspirated into the lung, e.g. from vomiting, the presence of solvent may

result in chemical pneumonitis or other lung damage.

Inhalation

High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and

dizziness, and may have other central nervous system effects.

Skin

May irritate the skin.

Prolonged contact with the concentrate can cause defatting of the skin and

may result in dermatitis.

Skin Sensitisation

Bromoxynil octanoate is a skin sensitiser.

Reproductive **Toxicity**

Bromoxynil octanoate has been classified as suspected of damaging fertility or the unborn child on the basis of studies, in rats, rabbits and mice which show reduced ossification and increased incidence of supernumerary ribs at doses

(range 5-15 mg/kg/day) which are not toxic maternally.

Chronic Effects

Chronic Overexposure: Weight loss and damage to liver and kidneys may be

expected if exposure is excessive.

Serious eve damage/irritation Causes serious eye damamge.

Skin

Mild to moderate skin irritant.

corrosion/irritation

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 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 APVMA, 'ADI List', April 2020). ADI for MCPA is 0.01 mg/kg/day, NOEL 1.1 mg/kg/day.

12. Ecological information

Known Harmful

Harmful to fish and other aquatic organisms.

Effects on the **Environment**

Other Precautions Do not contaminate dams, waterways or sewers with this product or the

containers which have held this product.

Environmental Marine pollutant.

Spray drift can cause damage, read the label for more information. Protection The following is data for the active ingredient, bromoxynil octanoate. **Acute Toxicity - Fish**





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Toxic to fish. LC50 (96hr) for rainbow trout is 0.041 mg/l. LC50 (96hr) for rainbow trout is 1.15 mg/l for MCPA 2EHE

Acute Toxicity -

LC50 (48hr) for daphnia is 0.046 mg/l for bromoxynil octanoate.

Daphnia

Bees: Not toxic to bees. LD50 >100 $\mu g/bee$. **Acute Toxicity -**

Other Organisms

13. Disposal considerations

On site disposal of the concentrated product is not acceptable. **Product Disposal**

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic

collections of unwanted chemicals (ChemClear®).

Do not use this container for any other purpose. **Container Disposal**

Triple or preferably pressure rinse containers before disposal.

rinsings to the spray tank.

If recycling, replace cap and return clean containers to recycler or

designated collection point.

If not recycling, puncture or shred and bury containers in local authority

landfill.

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

Empty containers and product should not be burnt.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or

storage.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the $\operatorname{drumMUSTER}$ symbol, triple rinse the container, ring your local Council, and offer the

container for collection in the program.

14. Transport information

It is good practice not to transport agricultural chemical products with Transport

food, food related materials and animal feedstuffs. Information

Hazchem Code

Storage and **Transport**

Considered non dangerous for road and rail transport (in packaging not exceeding 500 kg(L), including IBCs not exceeding 3000 Lt each) by the

Australian Code for the Transport of Dangerous Goods by Road and Rail.

ADG7.7; SP No. AU01.

UN Number (Sea

Transport)

3082

IMO Class/Packing Class 9/Packing Group III

Group

IMO Marine

Pollutant

Marine Pollutant

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. **IMO Proper** (contains Bromoxynil octanoate) **Shipping Name**

15. Regulatory information

WHS Schedule 11: item 10 - Flammable Liquid category 4 . Regulatory

Information

S6 **Poisons Schedule**

POISON Packaging &

KEEP OUT OF REACH OF CHILDREN Labelling READ SAFETY DIRECTIONS BEFORE OPENING OR USING

This product is registered with the Australian Pesticides and Veterinary Other Information

Medicines Authority (APVMA). APVMA product number: 31464.

16. Other Information





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Date of preparation or last revision of

Revised 22/03/2021.

SDS

Contact Person/Point Normal Hours: SDS Coordinator Phone: +61 3 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

...End Of MSDS...

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