

Infosafe No™ 3NUU9	Issue Date : April 2015	ISSUED by NUFARM
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 Product Name **Eliminar C Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Eliminar C Herbicide
<b>Product Code</b>	0823 <span style="float: right;">NUL 2730</span>
<b>Product Type</b>	Group C F Herbicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the control of certain broadleaf weeds in winter cereals as specified in the Directions for Use table on the label.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	OT4 Acute Toxicity - Oral: Category 4 TR2 Toxic to Reproduction: Category 2 CA2 Carcinogenicity: Category 2 AH1 Aspiration Hazard: Category 1 SE-3NARC STOT Single Exposure Category 3 (narcotic)
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H361 Suspected of damaging fertility or the unborn child. H351 Suspected of causing cancer. H304 May be fatal if swallowed and enters airways. AUH066 Repeated exposure may cause skin dryness or cracking H336 May cause drowsiness or dizziness.
<b>General Precautionary Statement (s)</b>	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.
<b>Pictogram (s)</b>	Exclamation mark, Health hazard



<b>Precautionary statement – Prevention</b>	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required. P261 Avoid breathing spray.
<b>Precautionary statement – Response</b>	P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 Do NOT induce vomiting. 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.
<b>Other Information</b>	Poisons Schedule S6

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid
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Bromoxynil octanoate	1689-99-2	250 g/L
Picolinafen	137641-05-5	25 g/L
Liquid Hydrocarbon	64742-94-5	554 g/L
Other ingredients (considered non-hazardous)		0-10 %

#### 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. Obtain medical advice.
<b>Ingestion</b>	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.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>Advice to Doctor</b>	Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

#### 5. Fire-fighting measures

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

#### 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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

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

#### 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure standards have been set for this product or the active ingredients. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m <sup>3</sup> ; 17 ppm TWA, as total hydrocarbon.
<b>Appropriate engineering controls</b>	Local exhaust ventilation may be required in confined spaces.
<b>Personal Protective Equipment</b>	When opening the container, preparing and using the product wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves and face-shield or goggles, and disposable fume mask covering mouth and nose. Re-entry period: Do not enter treated area until spray has dried.

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<b>Hygiene Measures</b>	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.
<b>Requirements Concerning Special Training</b>	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.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Amber Liquid
<b>Odour</b>	Hydrocarbon odour
<b>Boiling Point</b>	176 - 200°C (for solvent)
<b>Solubility in Water</b>	Forms an emulsion in water.
<b>Specific Gravity</b>	1.07 - 1.09
<b>pH</b>	3.5 - 4.5 in 1% solution
<b>Vapour Pressure</b>	0.19 mPa @ 25°C for bromoxynil octanoate: 0.00017 mPa @ 25°C for picolinafen
<b>Volatile Component</b>	~60%
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 5.4 for bromoxynil octanoate, 5.43 for picolinafen
<b>Flammability</b>	Combustible Liquid (GHS). Combustible liquid C1. (AS1940)
<b>Auto-Ignition Temperature</b>	Not determined
<b>Explosion Properties</b>	No information

## 10. Stability and reactivity

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

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) 365 mg/kg for bromoxynil octanoate LD50 (rat) >5000 mg/kg for picolinafen
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for bromoxynil octanoate LD50 (rat) >2000 mg/kg for picolinafen
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 0.76 mg/l for bromoxynil octanoate
<b>Ingestion</b>	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.
<b>Inhalation</b>	Symptoms of exposure by inhalation are similar to those described for ingestion.
<b>Skin</b>	May irritate the skin. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye</b>	May irritate the eyes.
<b>Skin Sensitisation</b>	The product is a skin sensitiser.
<b>Reproductive Toxicity</b>	Bromoxynil octanoate has been classified as suspected of damaging fertility or the unborn child on the basis of studies in rats, mice and rabbits which show reduced ossification and increased incidence of supernumerary ribs at doses (range 5-15mg/kg/day) which are not toxic maternally.
<b>Chronic Effects</b>	Chronic Overexposure: Weight loss and damage to liver and kidneys may be expected if exposure is excessive.

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<b>Serious eye damage/irritation</b>	The product is an eye irritant.
<b>Skin corrosion/irritation</b>	Mild to moderate skin irritant.
<b>Other Information</b>	<p>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 Health, Office of Chemical Safety, 'ADI List', June 2014).</p> <p>ADI for picolinafen is 0.007 mg/kg/day, NOEL 1.4 mg/kg/day.</p>

## 12. Ecological information

<b>Persistence and degradability</b>	Average soil half life of bromoxynil is 1 days.
<b>Known Harmful Effects on the Environment</b>	Harmful to fish and other aquatic organisms.
<b>Other Precautions</b>	<p>Do not spray in high winds.</p> <p>Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.</p>
<b>Environmental Protection</b>	<p>Marine pollutant.</p> <p>Spray drift can cause damage, read the label for more information.</p>
<b>Acute Toxicity - Fish</b>	<p>The following is data for the active ingredient, bromoxynil octanoate.</p> <p>Toxic to fish. LC50 (96hr) for rainbow trout is 0.041 mg/l.</p>
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is 0.046 mg/l for bromoxynil octanoate.
<b>Acute Toxicity - Algae</b>	EC50 for algae is 0.00018 mg/l for picolinafen
<b>Acute Toxicity - Other Organisms</b>	Bees: Not toxic to bees. LD50 >100 µg/bee.

## 13. Disposal considerations

<b>Product Disposal</b>	<p>On site disposal of the concentrated product is not acceptable.</p> <p>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®).</p>
<b>Container Disposal</b>	<p>Do not use this container for any other purpose.</p> <p>Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point.</p> <p>If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.</p> <p>If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations.</p> <p>DO NOT burn empty containers or product. 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 drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.</p> <p>Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.</p>

## 14. Transport information

<b>Transport Information Storage and Transport</b>	<p>It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.</p> <p>Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.</p>
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UN Number (Sea Transport) 3082 For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.

IMO Class/Packing Group Class 9; Packing Group III

IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains bromoxynil octanoate and picolinafen)

## 15. Regulatory information

Poisons Schedule S6

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

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 69510.

## 16. Other Information

Date of preparation or last revision of SDS 20/04/2015

Contact Person/Point Revisions Highlighted  
Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498  
First Issue  
...End Of MSDS...

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