

Infosafe No™ 3NUU9	Issue Date : May 2016	ISSUED by NUFARM
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 Product Name **Eliminar C Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	Eliminar C Herbicide
Product Code	0823 NUL 2730
Product Type	Group C F 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	For the control of certain broadleaf weeds in winter cereals as specified in the Directions for Use table on the label.
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 TR2 Toxic to Reproduction: Category 2 CA2 Carcinogenicity: Category 2 AH1 Aspiration Hazard: Category 1 SE-3NARC STOT Single Exposure Category 3 (narcotic) FL4 Flammable Liquids: Category 4 AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	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. H227 Combustible liquid 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)	Exclamation mark, Health hazard, Environment, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	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. P210 Keep away from flames and hot surfaces.
Precautionary statement – Response	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.

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Other Information Poisons Schedule S6

3. Composition/information on ingredients

Chemical Liquid

Characterization
Ingredients

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Bromoxynil, present as the octanoate (bromoxynil octanoate 35%)	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

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

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been set for this product or the active ingredients.
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**Appropriate engineering controls
Personal Protective Equipment**

The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m³; 17 ppm TWA, as total hydrocarbon.
Local exhaust ventilation may be required in confined spaces.

Hygiene Measures

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.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Requirements Concerning Special Training

After each day's use, wash contaminated clothing and safety equipment.
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

Form	Liquid
Appearance	Amber Liquid
Odour	Hydrocarbon odour
Boiling Point	176 - 200°C (for solvent)
Solubility in Water	Forms an emulsion in water.
Specific Gravity	1.07 - 1.09
pH	3.5 - 4.5 in 1% solution
Vapour Pressure	0.19 mPa @ 25°C for bromoxynil octanoate: 0.00017 mPa @ 25°C for picolinafen
Volatile Component	~60%
Partition Coefficient: n-octanol/water	Kow Log P is 5.4 for bromoxynil octanoate, 5.43 for picolinafen
Flash Point	72°C
Flammability	Combustible Liquid (GHS). Combustible liquid C1. (AS1940).
Auto-Ignition Temperature	Not determined
Explosion Properties	No information

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) 365 mg/kg for bromoxynil octanoate LD50 (rat) >5000 mg/kg for picolinafen
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for bromoxynil octanoate LD50 (rat) >2000 mg/kg for picolinafen
Acute Toxicity - Inhalation	LC50 (rat) (4hr) 0.76 mg/l for bromoxynil octanoate
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	Symptoms of exposure by inhalation are similar to those described for ingestion.
Skin	May irritate the skin.

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Eye	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis. May irritate the eyes.
Skin Sensitisation	The product 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, 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.
Chronic Effects	Chronic Overexposure: Weight loss and damage to liver and kidneys may be expected if exposure is excessive.
Serious eye damage/irritation	The product is an eye irritant.
Skin corrosion/irritation	Mild to moderate skin irritant.
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 Health, Office of Chemical Safety, 'ADI List', December 2015). ADI for picolinafen is 0.007 mg/kg/day, NOEL 1.4 mg/kg/day.

12. Ecological information

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 - Algae	EC50 for algae is 0.00018 mg/l for picolinafen
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. 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®).
Container Disposal	Do not use this container for any other purpose. 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. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. 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. 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. Returnable containers: empty contents fully into application equipment.

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Replace cap, close all valves and return to the point of supply for refill or storage.

14. Transport information

Transport Information Storage and Transport It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
FOR TRANSPORT BY ROAD AND RAIL IN AUSTRALIA ONLY: 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.

For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.

UN Number (Sea Transport) UN 3082; Class 9; Packing Group III; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bromoxynil octanoate and picolinafen)

UN Number (Air Transport, ICAO) UN 3082; Class 9; Packing Group III; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bromoxynil octanoate and picolinafen)

Marine Pollutant Yes

15. Regulatory information

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

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 Revised 09/05/2016
This SDS replaces document dated April 2015.

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The SDS was reviewed. Various changes were made to the information.
See section 2, 3, 9, 12 and 15.
...End Of MSDS...

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