

CHEETAH®

Date of Issue: 8th May 2020**1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION**

Chemical name of active ingredient(s): Blend of diflufenican and bromoxynil with solvents
Recommended use: Selective Herbicide

Supplier: Agrisource 2000 Limited
 45 Kitchener Road
 Pukekohe
 Phone: 09 2370422

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classifications: 3.1D, 6.1D, 6.3A, 6.4A, 6.5B, 6.8A, 6.9B, 9.1A, 9.2A, 9.3B

3.1D H227 Combustible liquid.

6.1D H302 Harmful if swallowed. H332 Harmful if inhaled.

6.3A H315 Causes skin irritation.

6.4A H320 Causes eye irritation.

6.5B H317 May cause an allergic skin reaction.

6.8A H360 May damage fertility or the unborn child.

6.9B H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

9.1A H410 Very toxic to aquatic life with long lasting effects.

9.2A H421 Very toxic to the soil environment.

9.3B H432 Toxic to terrestrial vertebrates.



Toxic/Irritant



Chronic



Ecotoxic

Precautionary statements

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.

P321 Specific treatment (see supplemental first aid instructions on this label).

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulation.

Label Statements

Signal word: **Danger**

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H227 Combustible liquid.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Common name	CAS No	%
Diflufenican	83164-33-4	2.3
bromoxynil octanoate ester	1689-84-5	34
Solvent Naptha	64742-94-5	30-40
N-Methyl-2-pyrrolidone	872-50-4	10 - 20
Proprietary surfactants		10 – 15

4. FIRST AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. **Phone 0800 764 766, (0800 POISON).**

Inhalation: Move the victim to fresh air and keep at rest. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.

Ingestion: Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Keep patient warm and at rest. Call a physician or poison control centre immediately.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact: Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Symptoms: Local:, Sensitisation, Irritation, Systemic:, Lethargy, Thirst, Anxiety, Hyperventilation, Tachycardia, Muscle rigidity, Nausea, Vomiting, Sweating, Salivation, Convulsions

Notes to Doctor: Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

5. FIRE-FIGHTING MEASURES

Type of Hazard:

Extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use high volume water jet.

HAZCHEM Code: 3Z

Fire Hazard Properties: Dangerous gases are evolved in the event of a fire., In the event of fire the following may be released: Hydrogen bromide (HBr), Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Nitrogen oxides (NOx), Carbon dioxide (CO₂), Carbon monoxide (CO).

Protection of fire-fighters: Wear protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases.

Further advise to firefighters: Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire-fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep people away from and upwind of spill/leak. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke.

Environmental precautions: Retain and dispose of contaminated wash water. Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling: When mixing or applying, avoid breathing fumes and contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

Storage: Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of the reach of children. Store in a place accessible by authorized persons only. Keep away from direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure standards: Solvent Naphtha: 64742-94-5 1,600 mg/m³/400 ppm (TWA)
N-Methyl-2-pyrrolidone: 872-50-4 103 mg/m³/25 ppm (TWA)

N-Methyl-2-pyrrolidone: 872-50-4 309 mg/m³/75 ppm (TWA)

N-Methyl-2-pyrrolidone : 872-50-4 19 ppm (TWA)

Methylpropan-1-ol : 78-83-1 152 mg/m³/50 ppm (TWA)

Personal Protective Equipment

Personal protective equipment In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory system:

Respiratory protection Wear respirator with an organic Vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent.

Hand protection:

Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, Smoking or using the toilet.

Eye protection:

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent) and faceshield (conforming to EN166, Field of Use = 3 or equivalent).

Skin and body protection:

Wear standard coveralls and Category 3 Type 3 suit. Wear Two layers of clothing wherever possible. Polyester/cotton or Cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Clear Liquid
Colour:	Light yellow to dark brown Almost odourless
Odour:	Aromatic
pH value:	6-8 ca. 4.2 at 10 % (23 °C) (deionized water)
Flash point	66 °C
Ignition temperature	> 200 °C – (Based on solvent content)
Upper explosion limit	7.00 %(V) – (Based on solvent content)
Lower explosion limit	0.6 %(V) – (Based on solvent content)
Density:	ca. 1.09 g/cm ³ at 20 °C
Solubility in water:	Water solubility emulsifiable N/A

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of use.

Conditions to avoid:

Elevated temperatures Heat, flames and sparks.

Materials to avoid:	Strong acids, Strong bases, Oxidizing agents, Store only in the original container.
Hazardous reactions :	None expected when stored and handled according to the label.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD50 (Rat) 1,113 mg/kg Test on a similar formulation
Acute toxicity - Dermal :	LD50 (Rat) > 2,000 mg/kg Test on a similar formulation
Acute toxicity – Inhalation	LC50 (Rat) 2.1 mg/l Exposure time: 4 h Irritating to Respiratory system technical. (Formulation component derived data.)
Skin irritation :	Irritating (Rabbit)
Eye irritation	Irritating (Rabbit)
Sensitisation	Sensitising (Guinea Pig)
Mutagenicity	Not considered to be a mutagen.
Carcinogenicity	The bromoxynil component caused carcinogenic responses in test animals at very high dose rates. The formulated product is not considered carcinogenic when used in accordance with label recommendations.

12. ECOLOGICAL INFORMATION

Data for technical active ingredient:

Aquatic Toxicity:	<p>Diflufenican: LC50 (Oncorhynchus mykiss (rainbow trout)) >0.109 mg/l Exposure time: 96 h</p> <p>Diflufenican: EC50 (Daphnia magna (Water flea)) > 0.24 mg/l Exposure time: 48 h</p> <p>Diflufenican: EC50 (Algae) > 10 mg/l Exposure time: 96 h</p> <p>Bromoxynil octanoate: EC50 (Oncorhynchus mykiss (rainbow trout)) >1.7 mg/l</p> <p>Bromoxynil octanoate: EC50 (Daphnia magna (Water flea)) 0.046 mg/l Exposure time: 48 h</p> <p>Bromoxynil octanoate: EC50 (Desmodesmus subspicatus (green algae)) 1 mg/l Exposure time: 96 h</p> <p>Bromoxynil octanoate: EC50 (Desmodesmus subspicatus (green algae)) 1 mg/l Exposure time: 96 h</p> <p>Bromoxynil octanoate: EC50 (Daphnia magna (Water flea)) 0.046 mg/l Exposure time: 48 h</p>
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Bio-accumulative potential:	Bioaccumulation <i>Lepomis macrochirus</i> (Bluegill sunfish) Bioconcentration factor (BCF): 230 The value mentioned relates to the combination of bromoxynil phenol and the active ingredient bromoxynil octanoate. <i>Lepomis macrochirus</i> (Bluegill sunfish) Bioconcentration factor (BCF): 1,596 The value mentioned relates to the active ingredient diflufenican.
Soil Mobility:	Not relevant to this formulation.

13. DISPOSAL CONSIDERATIONS

Methods of disposal:	Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.
Container disposal:	Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

14. TRANSPORT INFORMATION -International transport regulations (Land, Sea and Air)

UN number:	3082
Class:	9
Packing Group:	III
Marine Pollutant:	Yes
Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BROMOXYNIL OCTANOATE SOLUTION)

15. REGULATORY INFORMATION

ACVM Registered Number:	P9775 (See www.foodsafety.govt.nz for registration conditions).
HSNO Approval Code:	HSR100855 (See www.epa.govt.nz for controls).
Certified Handler:	Not required.
Tracking:	Not required.

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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