SAFETY DATA SHEET

CLOUT Herbicide

Date of Issue: 27 July 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): **CLOUT**

Recommended use: **Herbicide**

Supplier: **UPL New Zealand Limited**
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325
www.upl-ltd.com/nz
0800 CHEM CALL (0800 243 622) 24 Hours

Emergency telephone number:

2. HAZARDS IDENTIFICATION

Hazard Classification: **6.1E, 6.3B, 6.4A, 6.9B, 9.1A, 9.2A**
Required identification Details: **Signal Word: WARNING**
Keep out of reach of Children.
Read label before use.
Any person purchasing, handling or disposing of this product must be suitably qualified.

May be harmful if inhaled.
May cause skin and eye irritation.
May cause liver damage from repeated oral exposure at high doses.
Very toxic to aquatic organisms.
Very toxic to the soil environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	
Carfentrazone-ethyl	128639-02-1	240 g/L

Other inert materials

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).
General information:
First-aid measures

Inhalation:	Move person to fresh air. If person is not breathing, call a poison control, then give artificial respiration, preferably by mouth to mouth. Call a poison control centre or doctor for further treatment advice.
Ingestion:	Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control centre or doctor. Never give anything by mouth to an unconscious person
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
Eye contact:	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control centre or doctor for treatment advice.
Notes to a physician:	

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	
Type of Hazard:	
Extinguishing media:	Foam, CO_2 or dry chemical. Soft stream water fog only if necessary. Contain all run-off.
Hazardous thermal (de)composition products:	Hazardous combustion products include carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride, phosgene and hydrogen fluoride. Not combustible. When heated above the flash point, this material releases vapours which, when mixed with air, can burn or be explosive.
Protection of fire-fighters:	Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapours generated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.
Environmental precautions:	Keep material out of lakes, streams, ponds and sewer drains. In the event of a major spill, prevent spillage from entering drains or water courses.
Methods for cleaning up:	Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7. HANDLING AND STORAGE

Handling:	Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.
Storage:	Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Keep away from strong oxidising agents.
Packaging materials:	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Exposure Standards:

Engineering measures

Exposure control measures:	Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:	Use a vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible.
Skin and body:	Cotton overall buttoned to the neck and wrist, safety boots and a washable hat.
Hands:	For prolong or repeated contact use protective gloves
Eyes:	Safety glasses
General hygiene:	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

Physical State: Colour, Odour.	Off-white to white liquid.
pH:	5.0-6.5
Vapour Pressure:	
Boiling Point:	
Flash Point:	104°C (close up)
Freezing/melting point:	
Solubility:	
Specific Gravity/Density:	
Autoignition:	
Information for flammable material:	
Combustibility:	none
Corrosivity:	none
Explosive Properties:	none
Oxidation Properties:	

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable at ambient temperature and under normal conditions of use.
Conditions to avoid:	Heat, sparks, open flames, hot surfaces and direct sunlight.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen hloride, phosgene and hydrogen fluoride.
Hazardous polymerization:	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral:	Acute oral LD50 for rats: 4077 mg/kg
Acute toxicity - Dermal:	Acute dermal LD50 for rats >4000 mg/kg.
Acute toxicity – Inhalation:	LC50 (4 h) for rats >6.31 mg/L
Skin irritation:	Mildly irritating to skin (rabbits). No skin sensitisation (guinea pigs).
Eye irritation:	Mildly irritating to eyes;
Sensitization:	

Chronic toxicity

	Carfentrazone-ethyl: Long-term exposure caused hematotoxicity and deposit of porphyrin in the liver in animal studies.
Carcinogenicity:	In studies with laboratory animals, carfentrazone-ethyl did not cause reproductive toxicity, teratogenicity, neurotoxic or carcinogenicity. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosomal aberrations.
Mutagenicity:	
Reproduction toxicity:	

12. ECOLOGICAL INFORMATION

Aquatic	**Algae:** EC_{50} (72h): 0.012mg/L. NOEC (96h): 1.0 ug/L. **Daphnia:** LC_{50} (48h): >9.8 mg/L. **Fish:** LC_{50} (96 h) 1.6mg/L. NOEC (21d): 0.0187 mg/L
Birds Acute Oral:	LD50 for bobwhite quail >2250 mg/kg. LC50 for mallard duck >5620 ppm.
Earthworm:	LC_{50} >820 mg/kg soil
Bees:	LD_{50} (oral) >35 µg/bee; (contact) >200 µg/bee
Bioaccumulative Potential:	Carfentrazone-ethyl: The substance does not have a potential for bioconcentration.
Persistence and Degradability:	Carfentrazone-ethyl: Non-persistent. Readily hydrolyzed. Not readily biodegradable.
Mobility:	Carfentrazone-ethyl: Mobility in soil : Not relevant.

13. DISPOSAL CONSIDERATIONS

Methods of disposal:	Ideally, the product should be used for its intended purpose. Triple rinse containers; add rinsate to the spray tank. Then offer the container for recycling through the Agrecovery programme, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.
Empty container precautions:	Open dumping or burning of this material or its packaging is prohibited. Avoid contamination of any water supply with chemical or empty bag. Ensure bag is completely empty by adding residue to spray tank.

14. TRANSPORT INFORMATION - International transport regulations

	This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185. Classification below is only applicable when shipped by vessel and is not applicable When shipped by road or rail only.
UN number:	UN3082
Class or Division:	9
Subsidiary Class:	
Hazchem	2X
Packing Group:	III
Marine Pollutant:	Yes
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (carfentrazone-ethyl), 9, PG III, Marine pollutant:
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	UN3082, Environmentally hazardous substance, liquid, n.o.s. (carfentrazone-ethyl), 9, PG III, Marine pollutant:

15. REGULATORY INFORMATION

ACVM Registered Number:	P009839
HSNO Approval Code:	HSR007989 Any person purchasing, handling or disposing of this product must be suitably qualified.

16. OTHER INFORMATION

Additional information:

Original Issue Date:
Revision Date: 31 July 2022
Replaces: