



# SAFETY DATA SHEET

## MAJOR

Date of Issue: 20<sup>th</sup> July 2020

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

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

**Recommended use:** Herbicide

**Supplier:** UPL New Zealand Limited  
PO Box 51584, Pakuranga  
Auckland  
Phone 0800 100 325

**Emergency telephone number:** 0800 CHEM CALL (0800 243 622) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** 6.1E, 6.3B, 9.1B, 9.2A, 9.3C

**Required identification Details:**

**Signal Word: WARNING**  
Keep out of reach of Children.  
Read label before use.

May be harmful if swallowed.  
Causes mild skin irritation.  
Toxic to aquatic life with long-lasting effect.  
Very toxic to the soil environment.  
Harmful to terrestrial vertebrates.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Clomazone	81777-89-1	30
Calcium chloride	10043-52-4	5 - 10

### 4. FIRST-AID MEASURES

**Description of necessary first aid measures:**

#### Effects and symptoms

#### First-aid measures

**Inhalation:** Remove victim to fresh air. Apply artificial respiration if necessary.

<b>Ingestion:</b>	Call the National Poison Centre 0800 poison (0800 764 766). Have a person sip a glass of water if able to swallow. Do not induce vomiting.
<b>Skin contact:</b>	Take off contaminated clothing. Rinse skin immediately for 15-20 minutes. Wash with soap and water. If irritation persists see a doctor.
<b>Eye contact:</b>	If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Get medical attention if irritation persists.
<b>Notes to a physician:</b>	No specific antidote. Treat symptomatically (decontamination, vital functions). Call a Poison Centre immediately for treatment advice. In case of ingestion gastric lavage may be necessary (with proper laryngeal control). Before emptying the stomach, assess the potential danger arising from lung aspiration against the product toxicity.

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## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media:</b>	Water spray or fog. Foam. Carbon dioxide. Dry powder.
<b>Hazardous thermal (de)composition products:</b>	Evolves toxic and irritant fumes in fire including nitrogen oxides and chlorine oxides.
<b>HAZCHEM Code:</b>	3[Y]
<b>Protection of fire-fighters:</b>	Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.
<b>Environmental precautions:</b>	Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
<b>Methods for cleaning up:</b>	In the case of spillage, contain and absorb spilled material with absorbent material such as sand clay or cat litter. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local Authorities.

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## 7. HANDLING AND STORAGE

<b>Handling:</b>	When mixing or applying, avoid 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.
<b>Storage:</b>	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep away from sparks and flames. Keep out of reach of children.
<b>Packaging materials:</b>	Fluorinated HDPE Plastic.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Workplace Exposure Guidelines

### Exposure Standards:

Not established.

### Engineering measures

#### Exposure control measures:

Ensure ventilation is adequate, generally natural ventilation is adequate.

### Personal Protective Equipment

#### Detail specifications for equipment:

##### Respiratory system:

No special requirement when used as recommended.

##### Skin and body:

Avoid contact with skin. If there is a significant potential for contact, wear suitable coveralls.

##### Hands:

Wear suitable protective gloves against chemicals. Nitrile rubber min. 0.5mm thick and 300mm long gloves are the ones proven to be the most suitable according to tests on pesticide products. Wash the gloves thoroughly after each use, especially the insides. Replace gloves if damaged and before exceeding the breakthrough time.

##### Eyes:

Avoid contact with eyes. If there is a significant potential for contact, wear suitable eye and face protection.

##### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical State: Colour, Odour.

Off-white liquid with faint amine odour.

### pH:

9.78

### Vapour Pressure:

Not applicable.

### Boiling Point:

Approximately 100 °C.

### Flash Point:

None, the mixture is water based.

### Freezing/melting point:

Not applicable. The mixture is a liquid at ambient temperature and must be protected from frost.

### Solubility:

Forms a stable dispersion in water.

### Density:

1.19 g/cm<sup>3</sup>

### Information for flammable material:

Not applicable.

### Viscosity:

158 mPa.s at 20°C/ 188 mPa.s at 40°C.

### Octanol/water partition coefficient:

Clomazone: Kow 2.58 @ pH7, 20°C.

### Other Data:

Surface tension: 51.3 mNm<sup>-1</sup>

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## 10. STABILITY AND REACTIVITY

### Stability:

Stable when stored in original container under normal conditions of storage and use.

### Conditions to avoid:

Do not store in proximity of sources of ignition and direct sunlight.

### Materials to avoid:

Avoid contact with strong bases and strong oxidising substances.

### Hazardous Decomposition

During decomposition evolves toxic fumes; nitrogen oxides and

### Products:

chlorine oxides.

### Hazardous polymerization:

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity – Oral:

LD<sub>50</sub> >2000mg/kg (Rat)

### Acute toxicity - Dermal:

LD<sub>50</sub> >2000mg/kg (Rabbit)

### Acute toxicity – Inhalation:

Not classified

### Skin irritation:

Mildly Irritating

### Eye irritation:

Not classified

<b>Sensitization:</b>	Not classified
<b>Chronic toxicity</b>	
<b>Carcinogenicity:</b>	Not classified
<b>Mutagenicity:</b>	Not classified
<b>Reproduction toxicity:</b>	Not classified

## 12. ECOLOGICAL INFORMATION

### Acute Toxicity

<b>LC<sub>50</sub> fish, <i>Oncorhynchus mykiss</i> (96h):</b>	339.8 mg/l
<b>EC<sub>50</sub> aquatic invertebrates, <i>Daphnia magna</i> (48h):</b>	142.7 mg/l
<b>ErC<sub>50</sub> algae, <i>Pseudokirchneriella subcapitata</i> (72h):</b>	395.2 mg/l
<b>EyC<sub>50</sub> algae, <i>Pseudokirchneriella subcapitata</i> (72h):</b>	142.6 mg/l
<b>LD<sub>50</sub> birds, <i>Mallard duck</i>:</b>	Clomazone: >2510 mg/kg
<b>LD<sub>50</sub> honey bees oral, <i>Apis mellifera</i> (48h):</b>	100 µg a.s./bee
<b>LD<sub>50</sub> honey bees, contact, <i>Apis mellifera</i> (48h):</b>	100 µg a.s./bee

### Chronic Toxicity

<b>NOEC fish, <i>Oncorhynchus mykiss</i> (96h):</b>	43 mg/l
<b>NOEC aquatic invertebrates, <i>Daphnia magna</i> (48h):</b>	19 mg/l
<b>NOERC algae, <i>Pseudokirchneriella subcapitata</i> (72h):</b>	32 mg/l

**Degradability:** Half-life in soil: 77 d, not readily biodegradable.

**Mobility:** Low to medium mobility in soil.

**Bioaccumulation:** No significant potential for bioaccumulation.

## 13. DISPOSAL CONSIDERATIONS

### Methods of disposal:

Triple rinse container and add recycle through the Agrecovery Programme. If this is not possible, bury in landfill.



**Empty container precautions:** Avoid contamination of any water supply with chemical or empty container.

## 14. TRANSPORT INFORMATION - International transport regulations

<b>UN number:</b>	3082
<b>Class or Division:</b>	9
<b>Subsidiary Class:</b>	-
<b>Packing Group:</b>	III
<b>Marine Pollutant:</b>	Yes
<b>Proper shipping name:</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (clomazone)

**INTERNATIONAL AIR  
TRANSPORT ASSOCIATION  
(IATA):**

## 15. REGULATORY INFORMATION

<b>ACVM Registered Number:</b>	P009584
<b>HSNO Approval Code:</b>	HSR101381

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## 16. OTHER INFORMATION

**Additional information:**

**Original Issue Date:** 2020

**Revision Date:**

**Replaces:**

***Disclaimer EXCLUSION OF LIABILITY: PLEASE READ***

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