



# SAFETY DATA SHEET

## Unimaz™

Date of Issue: 03 April 2019

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

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

**Recommended use:**

**Supplier:**

Etec Crop Solutions  
31 Tamaki Bay Drive  
Pakuranga, Auckland  
Phone 0800 100 325

**Emergency telephone number:**

0800 Poison (0800 764 766) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification**

6.3B, 6.4A, 9.1A, 9.2A

**Required identification Details:**

**HARMFUL** – may cause skin and eye irritation. Avoid contact with skin and eyes.

**ENVIRONMENTAL WARNING:** Harmful to aquatic organisms. Avoid contamination of any water supply with product or empty container.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation Information on hazardous ingredients**

Common name	CAS No	%
Imazapyr present as the Isopropylamine salt	81334-34-1	25

### 4. FIRST-AID MEASURES

**Description of necessary first aid measures:**

For advice, contact the National Poisons Centre **0800 POISON (0800 764 766)** or a doctor immediately.

## Effects and symptoms

### First-aid measures

**Inhalation:**

Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

**Ingestion:**

If swallowed do NOT induce vomiting. Call a doctor immediately

**Skin contact:**

If skin or hair contact occurs, remove contaminated clothing and flush skin, hair and/or eyes with running water for several minutes.

**Eye contact:**

If skin eye contact occurs flush eyes with running water for several minutes.

**Notes to a physician:**

Apply symptomatic treatment.

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## 5. FIRE-FIGHTING MEASURES

**HAZCHEM Code:**

**Extinguishing media :**

None required but use water spray to cool containers or personnel threatened by fire.

**Hazardous thermal (de)composition products:**

If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen and possibly oxides of phosphorus.

**Protection of fire-fighters:**

Self contained breathing apparatus and protective clothing

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.

**Environmental precautions:**

This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent from entering drains, waterways or sewers.

**Methods for cleaning up:**

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

**Handling:**

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in

direct sunlight.

**Storage:** Do not mix, store or apply the product or spray solutions of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks.  
**Packaging materials:** Refer to Haznote for storage quantities  
HDPE Plastic Containers

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace Exposure Guidelines

#### **Workplace exposure standards:**

**TEL:** Not Set  
**EEL:** Not Set

#### **Exposure Standards outside:**

**The workplace:** None Set

### Engineering measures

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

### Personal Protective Equipment

#### **Detail specifications for equipment:**

It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.

#### **Respiratory system:**

Avoid inhalation of spray or spray mist

#### **Skin and body:**

Wear cotton overalls buttoned to the neck and wrist and a washable hat

#### **Hands:**

Wear elbow-length PVC gloves

#### **Eyes:**

Wear a face shield or goggles

#### **General hygiene:**

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State, odour & colour:** Clear amber liquid with slight amine odour

**pH:** 7.3

**Vapour Pressure:** <0.013 mPa @ 60°C for imazapyr

**Solubility:** Soluble in water

**Specific gravity or density:** 1.12

**Flashpoint:** N.A.

**Octanol/water partition coefficient:** 0.11 for imazapyr

**Explosion properties:** Not explosive

**Oxidation properties:** Not an oxidiser

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal storage and use conditions

**Conditions to avoid:** Excessive heat

**Materials to avoid:** The addition of a strong alkali such as caustic soda will cause release of isopropylamine vapour.

Isopropylamine vapour is moderately toxic, LD50 (oral, rat) is 820 mg/kg.

**Hazardous decomposition Products:** If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen and possibly oxides of phosphorus.

**Hazardous polymerization:** Not possible

**Specific Data:**

**Hazardous reactions :** With strong alkaline products as described above

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity – Oral :** LD50 (rat) >5000 mg/kg for imazapyr

**Acute toxicity - Dermal :** LD50 (rabbit) >5000 mg/kg for imazapyr

**Acute toxicity – Inhalation:** LC50 (rat) (4hr) >5.1 mg/l for imazapyr

**Skin irritation :** Mild skin irritant.

**Eye irritation:** Mild eye irritant.

**Sensitization :** Not a sensitizer

**Chronic toxicity** Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Carcinogenicity:** Data indicates no carcinogenic effects

**Mutagenicity:** Data indicates no carcinogenic effects

**Reproduction toxicity:** Data indicates no carcinogenic effects

**Other information :**

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Fish** Not toxic to fish.

**Daphnia magna** LC50 (96hr) for rainbow trout, bluegill sunfish and channel catfish is >100

**Algae** mg/l.

**Bees**  
**Mobility**      **Soil**

Non toxic to bees  
Soil residual activity for imazapyr is 6 months to 2 years in temperate climates

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### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal :**

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose, according to label instructions.

**Container Disposal:**

Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.

Agrecovery is the national program for the collection and recycling of empty containers triple rinse the container and present clean drum at an Agrecovery collection site alternatively, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush and bury in an approved landfill.

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### 14. TRANSPORT INFORMATION - International transport regulations

**UN number:** 3082  
**Class or Division:** Class 9  
**Sub Class:** N.A.  
**Packing Group:** III  
**Marine Pollutant:** No  
**Proper shipping name :** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 250 g/L imazapyr)  
**Other Information:** This material is not a dangerous good as defined by the International Air Transport Association Dangerous Goods Regulations.

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### 15. REGULATORY INFORMATION

**ACVM Registered Number:**  
**HSNO Approval Code:** Exempt from Registration under the ACVM Act 1997  
HSR000521

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### 16. OTHER INFORMATION

**Additional information:** **Original Issue Date:** 30<sup>th</sup> November 2009  
**Revision Date:** 03 April 2019

**Replaces:** ES284

***Disclaimer***

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