



# SAFETY DATA SHEET

## METAREX INOV

Date of Issue: 15 April 2019

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical Name of Active Ingredient:** Metaldehyde

**Recommended Use:** Molluscicide

**Supplier:** Etec Crop Solutions Limited  
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:** 6.1E(O), 6.8B, 6.9B, 9.3C

**Required identification Details:** May be harmful if swallowed  
Suspected reproductive toxin  
May cause damage to organs through prolonged or repeated exposure  
Harmful to terrestrial vertebrates

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/Preparation Information on Hazardous Ingredients

Common Name	CAS No	%
Metaldehyde	108-62-3	4%

### 4. FIRST AID MEASURES

**Description of Necessary First Aid Measures:** Provide washing facilities in the workplace

**Effects and Symptoms** Clinical symptoms – Nervous and digestive disorder.

#### First Aid Measures

**Inhalation:** Substance is non-dusty pellet. Inhalation is not applicable as a route of exposure in normal conditions of use.

<b>Ingestion:</b>	Harmful if swallowed. Consult a physician and show the package or label. Do not induce vomiting unless advised by the Poisons Information Centre or doctor. Do not give anything by mouth to an unconscious person.
<b>Skin Contact:</b>	Avoid skin contact. Wash hands, face and exposed skin before meals and after work. Remove contaminated clothing and wash skin thoroughly with soap and water.
<b>Eye Contact:</b>	Immediately flush eyes with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical advice.
<b>Notes to a Physician:</b>	Treat symptomatically. No known antidote.

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## 5. FIRE-FIGHTING MEASURES

<b>HAZCHEM Code:</b>	3X
<b>Extinguishing Media:</b>	Foam, dry powder, carbon dioxide or water spray. Avoid, if possible, using a water spray fire extinguisher if there is a risk of polluting sewers and ground water.
<b>Hazardous Thermal (de)Composition Products:</b>	Product does not readily propagate combustion. Normal products of organic combustion will be released under conditions of pyrolysis or combustion.
<b>Protection of Fire-Fighters:</b>	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Observe precautions in handling, storage and exposure controls sections.
<b>Environmental Precautions:</b>	Prevent spillage into drains and waterways.
<b>Methods for Cleaning Up:</b>	<p><b>Small Spill:</b> Wear protective clothing to prevent skin and eye contact. Collect and seal in properly labelled containers for disposal or re-use.</p> <p><b>Large Spill:</b> Wear protective clothing to prevent skin and eye contact. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers, bags or drums for disposal or re-use. If contamination of crops or waterways has occurred, advise emergency services or State Department of Agriculture.</p> <p>Dispose of packaging carefully. Shake container empty into application equipment.</p> <p>DO NOT dispose of unused product on site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm</p>

in a disposal pit specifically marked and set up for this purpose, clear of waterways desirable vegetation and tree roots. Empty containers and products should not be burnt. Observe government regulations.

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## 7. HANDLING AND STORAGE

### Handling:

#### *Handling Precautions*

Harmful if swallowed. Wash hands after use. When opening the container, preparing product for use (loading) and if applying by hand, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length rubber gloves. After each day's use, wash gloves and contaminated clothing.

#### *Other Precautions:*

Do not use human flaggers/markers unless they are protected by engineering controls such as enclosed cabs.

### Storage:

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Store in a locked room or place out of the reach of children, animals, food, feedstuff, seed and fertilisers.

### Packaging Materials:

HDPE buckets, multilayer paper bags or woven polypropylene bags

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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:

Use in well ventilated areas. Keep containers closed when not in use.

### Personal Protective Equipment

#### Detailed Specifications for Equipment:

#### Respiratory System:

Not required when used as recommended.

#### Skin and Body:

When opening the container, preparing product for use (loading) and if applying by hand, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing).

#### Hands:

Wear elbow-length rubber gloves.

#### Eyes:

Not required when used as recommended.

#### General Hygiene:

After each day's use, wash gloves and contaminated clothing. Wash skin thoroughly with soap and water.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical State, Odour & Colour:

Green Pellets with no distinguishing odour.

<b>pH: active ingredient</b>	5.8
<b>Vapour Pressure: active ingredient</b>	6.6 x 10 <sup>3</sup> mPa (25°C)
<b>Boiling Point: active ingredient</b>	112 - 115 °C
<b>Freezing/Melting Point:</b>	No data available
<b>Solubility:</b>	Not miscible. Remains solid.
<b>Specific Gravity or Density:</b>	0.834 g/cm <sup>3</sup>
<b>Flashpoint:</b>	70°C at 713 mmHg. Not Flammable.
<b>Octanol/Water Partition Coefficient:</b>	No data available
<b>Explosion Properties:</b>	Not Explosive
<b>Oxidation Properties:</b>	Not an Oxidiser

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable for at least 2 years under ambient storage conditions.
<b>Conditions to Avoid:</b>	Heat and Moisture. Product not known to undergo hazardous reactions under normal handling conditions.
<b>Materials to Avoid:</b>	None
<b>Hazardous Decomposition Products:</b>	Product not known to produce hazardous decomposition products under normal storage conditions. Normal products of organic combustion will be released under conditions of pyrolysis or combustion.
<b>Hazardous Polymerization:</b>	Not subject to polymerization
<b>Specific Data:</b>	None
<b>Hazardous Reactions:</b>	Product not known to undergo hazardous reactions under normal handling conditions

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

<b>Acute Toxicity – Oral:</b>	LD <sub>50</sub> Oral (ingestion) Rat = > 2000 mg/kg
<b>Acute Toxicity – Dermal:</b>	LD <sub>50</sub> Dermal (skin contact) Rat > 2000 mg/kg
<b>Acute Toxicity – Inhalation:</b>	Not applicable
<b>Active Ingredient Only</b>	LC <sub>50</sub> (4h) Rats >15 mg/litre of air
<b>Skin Irritation (rabbit):</b>	Not a skin irritant
<b>Eye Irritation (rabbit):</b>	Not an eye irritant
<b>Sensitization (mouse):</b>	Not a sensitizer

### CHRONIC TOXICITY

<b>Carcinogenicity:</b>	Not carcinogenic
<b>Mutagenicity:</b>	No evidence of mutagenicity
<b>Reproduction Toxicity:</b>	Suspected Reproductive toxin
<b>Other Information:</b>	Target organ toxin

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity – Active Ingredient Birds

LD <sub>50</sub> Oral Japanese Quail - 170 mg/kg
LD <sub>50</sub> Oral Mallard Duck - 196 mg/kg
LD <sub>50</sub> Oral Pheasant - 262 mg/kg

<b>Fish</b>	Dietary LD <sub>50</sub> (8 day) 3460 ppm LC <sub>50</sub> (96h) Rainbow Trout 75 mg/litre LC <sub>50</sub> (96h) Common Carp > 100 mg/litre
<b>Daphnia</b>	EC <sub>50</sub> (48h) >90 mg/litre
<b>Algae</b>	EC <sub>50</sub> (72h) > 200 mg/litre
<b>Bees</b>	LD <sub>50</sub> Acute Oral > 87 µg/bee LD <sub>50</sub> Acute Contact > 113 µg/bee
<b>Environmental Fate</b>	No data available for the product

### 13. DISPOSAL CONSIDERATIONS

<b>Methods of Disposal:</b>	See Section 6 above. Dispose of packaging carefully. Shake container empty into application equipment. DO NOT dispose of unused product on site. Do not release product into drains and waterways. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways desirable vegetation and tree roots. Empty containers and products should not be burnt.
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### 14. TRANSPORT INFORMATION - International Transport Regulations

<b>UN Number:</b>	<b>Not classified</b>
<b>Class or Division:</b>	Not classified
<b>Sub Class:</b>	Not classified
<b>Packing Group:</b>	Not classified
<b>Marine Pollutant:</b>	Not a Marine Pollutant
<b>Proper Shipping Name:</b>	<b>Not classified</b>
<b>Other Information:</b>	Not classified as an environmental hazardous substance

### 15. REGULATORY INFORMATION

<b>ACVM Registered Number:</b>	<b>P009605</b>
<b>HSNO Approval Code:</b>	<b>HSR101302</b>

### 16. OTHER INFORMATION

<b>Additional Information:</b>	<b>Original Issue Date:</b> 15 <sup>th</sup> April 2019 <b>Revision Date:</b> - <b>Replaces:</b> -
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#### **Disclaimer**

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Etec Crop Solutions Ltd as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.

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