

# SAFETY DATA SHEET



## Ovation<sup>®</sup>

Date of Issue: 3 June 2016

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** Buprofezin  
**Recommended use:** Insect growth regulator/Insecticide  
**Supplier:** Etec Crop Solutions Ltd  
PO Box 51584  
Pakuranga 2140  
Auckland  
**Emergency telephone number:** 0800 Poison (0800 764 766) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** 6.1E, 6.3B, 6.4A, 6.9B, 9.1D, 9.3C  
**Required identification Details:** Harmful if swallowed.  
Keep out of the reach of children.  
Avoid contact with skin and eyes.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Buprofezin	069327-76-0	50%
Silica, amorphous	112926-00-8	<5%
Balance, not contributing to hazard		>45%

### 4. FIRST-AID MEASURES

#### Description of necessary first aid measures:

#### Effects and symptoms

#### First-aid measures

#### **Inhalation:**

Remove person to fresh air. If not breathing call 111 or and ambulance and give artificial respiration; if by mouth use rescuer protection mask. Call National Poisons Centre or a doctor for treatment advice.

#### **Ingestion:**

Call National poisons Centre or a doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless advised by Poisons Information Centre or a doctor. Never give anything by mouth to an unconscious person.

#### **Skin contact:**

Remove contaminated clothing. Flush skin with plenty of

water for at least 15 mins. Call National Poisons Centre or a doctor for treatment advice.

**Eye contact:**

Hold eyes open and immediately flush eyes with plenty of water for at least 15 mins, occasionally lifting upper & lower eyelids. Remove contact lenses, if present, after first 5 mins then continue rinsing eyes.

**Notes to a physician:**

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**Workplace facilities:**

**Required Instructions:**

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## 5. FIRE-FIGHTING MEASURES

**HAZCHEM Code:** 2X

**Extinguishing media :** Foam, carbon dioxide or dry chemical.

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

**Protection of fire-fighters:** Use positive-pressure, self-contained breathing apparatus and full protective equipment.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Do not touch or walk through spilled material. Wear appropriate protective clothing.

**Environmental precautions:** Stop further spills and prevent entry into waterways and drains.

**Methods for cleaning up:** Small spills: Collect spilt material and place in drums for disposal according to local authority guidelines. Spill residues may be cleaned using water & detergent. Contain and absorb wash water  
Large spills: Report to 0800 CHEMCALL (0800 243 622).

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## 7. HANDLING AND STORAGE

**Handling:** Keep out of the reach of children. Wash hands thoroughly after handling. Remove contaminated clothing and wash before re-use. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.  
Clean up spilled material immediately and wash clothes, equipment and work area after use.  
Do not allow runoff from treated areas to enter waterways.  
Do not apply if heavy rains are imminent.

**Storage:** Store in a cool dry well-ventilated place. Keep container closed when not in use. Do not store with food, feedstuffs, fertilisers or seeds.

This substance is subject to a requirement for an emergency

management plan, secondary containment and signage, whenever it is held in quantities of 10,000 kg or more.

**Packaging materials:**

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Workplace Exposure Guidelines**

**Workplace exposure standards:**

**Application in the workplace:**

**Exposure Standards outside:  
The workplace:**

### **Engineering measures**

**Hierarchy of controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate to keep airborne concentrations low.

**Exposure control measures:**

Good general ventilation should be sufficient for most conditions.

**No Hazard indication:**

**Ventilation specification:**

Mix in well ventilated area.

### **Personal Protective Equipment**

**Detail specifications for equipment:**

**Respiratory system:**

Use approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Skin and body:**

Wear appropriate gloves and protective clothing to prevent skin exposure.

**Hands:**

**Eyes:**

Wear chemical safety goggles.

**General hygiene:**

Wash hands thoroughly after handling. Remove contaminated clothing and wash before re-use.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:**

Granule

**Colour:**

Brown

**Odour:**

Odourless

**pH:**

**Vapour Pressure:**

6.4 x 10.6 mm Hg at 25°C (buprofezin)

**Vapour Density:**

**Boiling Point:**  
**Freezing/melting point:** 104.5-105.5°C  
**Solubility:** Dispersible. Solubility of 0.382 mg/L @20°C.  
**Specific gravity or density:**  
**Information for flammable material including:**

- **Lower and upper flammability limits**
- **Flashpoint (state test Method)**

**Auto – ignition Temperature:**  
**Octanol/water partition coefficient:**  
**Explosion properties:**  
**Oxidation properties:**

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## 10. STABILITY AND REACTIVITY

**Stability:**  
**Conditions to avoid:** Strong oxidizing agents and acids.  
**Materials to avoid:**

**Hazardous decomposition Products:** Thermal decomposition may yield toxic fumes of sulphur dioxides, nitrogen oxides and carbon dioxides.

**Hazardous polymerization:** Not known to not occur

**Specific Data:**

**Hazardous reactions :**

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity – Oral :** LD<sub>50</sub>: rat = >2198 mg/Kg. low toxicity if swallowed. Harmful effects are not anticipated from swallowing small amounts.

**Acute toxicity - Dermal :** Mildly irritating to skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts. LD<sub>50</sub> rabbit > 5000 mg/kg.

**Acute toxicity – Inhalation:** No adverse effects are anticipated from inhalation.

**Skin irritation :**

**Eye irritation:**

**Sensitization :**

**Common name :**

**Chronic toxicity :**

**Carcinogenicity:** Buprofezin was negative for carcinogenicity in male mice and rats and was negative in numerous genotoxicity studies.

**Mutagenicity:** For the active ingredient, in-vitro and animal genetic toxicity

**Reproduction toxicity:** studies were negative.  
The active ingredient did not interfere with reproduction and fertility.

**Other information :**

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

<b>Fish</b>	Buprofezin has slight chronic toxicity to crustaceans and fish.
<b>Daphnia magna</b>	
<b>Algae</b>	
<b>Bees</b>	Relatively non-toxic.
<b>Birds</b>	Relatively non-toxic.
<b>Common name</b>	
<b>Mobility Soil</b>	Broken down by microbial action.
<b>Water</b>	
<b>Persistence/degradability Soil</b>	Moderately persistent.
<b>Water</b>	Buprofezin is only susceptible to leaching, so is extremely unlikely to contaminate ground water.
<b>Bioaccumulative potential:</b>	There is potential for bioaccumulation in animal systems.
<b>Fish</b>	Bioconcentration factors in Bluegill Sunfish: 86X in edible tissue, 846X in viscera and 537X in whole fish. Depuration is rapid, limiting accumulation.

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## 13. DISPOSAL CONSIDERATIONS

**Methods of disposal :** Dispose according to product label directions; if this is not possible, disposal must be in accordance with local regulations.

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## 14. TRANSPORT INFORMATION

### International transport regulations

### International transport regulations:

**UN number:** Not required. Not classified as hazardous.

### Land - Road/Railway

### Proper shipping name :

## 15. REGULATORY INFORMATION

<b>ACVM Registered Number:</b>	P5861
<b>HSNO Approval Code:</b>	HSR000452

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## 16. OTHER INFORMATION

### Additional information:

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