



GLOBAL AGRICHEM

## SAFETY DATA SHEET

Suite 4, level 1, 38 Whitaker Place, Grafton  
Auckland, New Zealand  
Tel: +64 09 972 9837  
Fax: +64 09 353 1736  
info@globalagrichem.co.nz

Trade name: **REGRESSOR**

Date of issue: 01 August 2015  
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### 1. Identification of the Substance and Supplier.

**Product name:** Regressor (Fipronil 200g/litre SC)

**Recommended Use:** Insecticide for use in horticultural crops.

**Company Details:** Global Agrichem Limited  
Suite 4, level 1, 38 Whitaker Place,  
Grafton, Auckland  
New Zealand

**Web Address:** [www.globalagrichem.co.nz](http://www.globalagrichem.co.nz)

**E-mail Address:** [info@globalagrichem.co.nz](mailto:info@globalagrichem.co.nz)

**Telephone number:** (09) 972 9837

**Emergency Telephone:** National Poisons and Hazardous Chemicals Information Centre  
Dunedin. Phone: 0800 POISON (0800 764-766)

### 2. Hazards identification.

Classified by EPA as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

#### HSNO Hazard Classification:

6.1D: May be harmful if inhaled  
6.4A: May cause eye irritation  
6.9A: May cause organ damage from repeated oral exposure  
9.1A: Very toxic to aquatic organisms  
9.3B: Toxic to terrestrial vertebrates  
9.4A: Very toxic to terrestrial invertebrates

**Precautions:** Avoid inhalation of spray mist.  
Avoid skin contact  
Avoid contamination of any water supply with product or empty containers

### 3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/v)
Fipronil 95%	120068-37-3	19.8
Amine salt of polyarylphenyl ether phosphate	105362-40-1	> 2.0
Ethylene glycol	107-21-1	> 4.0
Dimethylpolysiloxane	9016-00-6	< 1.0
Other non- hazardous ingredients		To 100%



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#### 4. First aid measures

- First Aid:** For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Obtain medical attention.
- Inhalation:** Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
- Ingestion:** Rinse mouth immediately and then drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
- Skin Contact:** Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
- Eye Contact:** Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.
- First Aid Facilities:** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
- Advice to Doctor:** Treat symptomatically. No known specific antidote
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#### 5. Fire-fighting measures

- Suitable extinguishing media:** Water Spray, water fog, foam, carbon dioxide, dry chemical.
- Hazards from combustion:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion. Specific hazards: Carbon monoxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulphur oxides, organochloric compounds
- Special protective equipment for fire fighters:** Wear chemical protective clothing and self-contained breathing apparatus.
- Special fire-fighting methods:** Keep upwind. Keep containers cool by spraying water if exposed to fire. Do not allow run-off from firefighting to enter sewage, effluent systems, drains or water courses.
- Hazchem Code:** 2[Z]
- Other Information:** In case of fire and/or explosion do not breathe fumes
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## 6. Accidental release measures

**Spills and Disposal:** Exclude non-essential people from the area  
Wear protective clothing.  
Contain the spill and absorb with absorbent material (e.g. sand, soil or absorbent granules).  
If spill does enter waterways, contact the local authority.  
Collect the absorbed spill in an appropriate sealable container for disposal in an approved landfill.  
Decontaminate the spill area with detergent and water. Absorb with inert material and dispose of waste safely in an approved landfill.

**Personal Protection:** Ensure suitable personal protection (PPE). Wear eye protection, chemically resistant gloves boots and overalls.

**Environmental precautions:** Prevent washings from entering surface water drains or waterways.

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## 7. Handling and storage

### Precautions for safe handling:

Do not apply this product onto or into water.  
Avoid skin and eye contact and inhalation of spray mist  
Approved handler: This product must be under the control of an approved handler when applied in a wide dispersive manner or used by a commercial contractor.  
Ensure thorough ventilation of stores and work areas.  
Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 or more litres of Regressor are used within 24 hours.

### Conditions for Safe Storage:

Keep out of reach of children.  
Store in the original container tightly closed in a locked dry cool area away from direct sunlight and foodstuffs.  
Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals.  
Stores containing up to 100 litres of Regressor require signage and secondary containment, more than 100 litres require emergency response plans.

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## 8. Exposure controls/personal protection

**Occupational exposure limit values:** No exposure limits (WES, TEL or EEL's) have been specifically assigned to this product.

**Engineering controls:** No special requirements. Product is used outdoors. Handle in well ventilated areas. Generally, natural ventilation is adequate. Wear respiratory protection if ventilation is inadequate



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**Personal Protective Equipment:** When opening the container, preparing the spray or applying the product, wear safety goggles, chemical resistant safety gloves, cotton overalls (chemical-protection suit) and boots.

**Hygiene Measures:** Do not eat, drink or smoke while using the product.  
Remove protective clothing and wash hands and face thoroughly before meals and after work.  
Wash protective clothing daily after work.

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### 9. Physical and chemical properties

**Appearance:** Liquid  
**Colour:** Off-white suspension  
**Odour:** Slight  
**Flash Point:** Not flammable  
**Density:** 1.06 g/cm<sup>3</sup> (20°C)  
**pH:** 6.0 – 8.0  
**Water solubility:** Disperses in water

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### 10. Stability and reactivity

**Chemical Stability:** Stable under normal conditions of handling and storage.

**Substances to avoid:** No substances known

**Hazardous reactions:** No hazardous reactions under normal conditions of handling and storage

**Hazardous decomposition products:** No hazardous decomposition products under normal conditions of handling and storage

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### 11. Toxicological information

**Acute Toxicity:** Oral LD<sub>50</sub> Rat: > 1000 mg/kg  
Dermal LD<sub>50</sub> Rat: > 2000 mg/kg  
Inhalation LC<sub>50</sub> Rat: 0.94 mg/litre

**Irritation:** Skin (rabbit): Non-irritant.  
Eye (rabbit): Irritant

**Sensitization:** Not a sensitizer (Guinea pig)

**Chronic Effects:** Fipronil is non-mutagenic, non-teratogenic and has no adverse effect on reproductive performance.

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### 12. Ecological Information

**Ecotoxicity:** Very toxic to aquatic life with long lasting effects. Do not release into the environment.  
Ecotoxicological data has not been determined specifically for this product. Data given is for the active ingredient fipronil.

**Environmental Fate:** Fipronil is not readily biodegradable but is readily degraded in the soil environment.

**Acute Toxicity to Fish:** Rainbow trout LC<sub>50</sub> (96 hour): 248 µg/litre (Fipronil)  
European carp LC<sub>50</sub> (96 hour): 430 µg/litre (Fipronil)  
Bluegill sunfish LC<sub>50</sub> (96 hour): 85 µg/litre (Fipronil)

**Acute Toxicity Aquatic Organisms:**

Daphnia EC<sub>50</sub> (48 hour): 0.19 mg/l (Fipronil)  
Algae: *Scenedesmus subspicatus* EC<sub>50</sub> (96hour): 0.068 mg/l (Fipronil)  
Algae: *Selenastrum capricornutum* EC<sub>50</sub> (120 hour): > 0.16 mg/l (Fipronil)  
Algae: *Anabena flos-aquae* EC<sub>50</sub> (120 hour): > 0.17 mg/l (Fipronil)

**Acute Toxicity Vertebrates-Birds (9.3B):**

Mallard duck Oral LD<sub>50</sub>: > 2000 mg/kg (Fipronil)  
Mallard duck Dietary LC<sub>50</sub>: > 5000 mg/kg diet (Fipronil)  
Bobwhite quail Oral LD<sub>50</sub>: 11.3 mg/kg (Fipronil)  
Bobwhite quail Dietary LC<sub>50</sub>: 49 mg/kg diet (Fipronil)

**Acute Toxicity to Soil Dwelling Organisms:**

Worms: Non toxic (Fipronil)

**Acute Toxicity to Terrestrial Invertebrates (9.4A):**

Honey bee: Highly toxic by direct contact and ingestion (Fipronil)

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### 13. Disposal considerations

**Product disposal :** Dispose of this product only by using according to the label or at an approved landfill or other approved facility.

**Container disposal :** Triple rinse the empty container adding the rinsate to the spray tank.  
Recycle if possible, otherwise crush and bury in an approved local authority facility.  
Avoid contamination of any water supply with product or empty container.  
Do not use container for any other purpose.

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#### 14. Transport regulations

**Dangerous Goods:** Classified as dangerous goods for transport (9.1A)

**Rail /Road /Sea:** UN Number: 3082  
Class: 9  
Packaging Group: III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE  
LIQUID, N.O.S. (Fipronil)  
Hazchem: 2[Z]  
Marine Pollutant: Yes

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#### 15. Regulatory information

HSNO Approval Number: HSR100916  
HSNO Controls: Refer to [www.epa.govt.nz](http://www.epa.govt.nz) .  
ACVM Approval: Registered pursuant to the ACVM Act 1997 No: P9130  
ACVM Registration conditions: See: [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

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#### 16. Other information

**Abbreviations:** ACVM: Agricultural Chemicals and Veterinary Medicines Group.  
EEL: Environmental Exposure Limit  
EPA: Environmental Protection Authority of New Zealand  
CAS Number: Chemical Abstracts Service Number  
HSNO: Hazardous Substances and New Organisms ACT 1966  
LD<sub>50</sub>: Lethal Dose 50% (Population)  
LC<sub>50</sub>: Lethal Concentration 50% (Population)  
EC<sub>50</sub>: Half Maximal Effective Concentration 50% (Population)  
TEL: Tolerable Exposure Limit  
WES: Workplace Exposure Standard

**General:** Regressor (Fipronil 200g/litre SC) is an Insecticide for use in horticulture. Use only as directed on the label

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*This SDS supersedes all previous issues. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Since the actual use of this product is beyond the control of Global Agrichem Ltd, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.*

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