## Section 1 - Identification of the Material and Supplier

**Chemical nature:** Fipronil is a phenylpyrazole derivative.
**Trade Name:** **PCO FIPRONIL 100SC TERMITICIDE & INSECTICIDE**
**APVMA Code:** 89141
**Product Use:** Insecticide
**Supplier:** **Amgrow Australia Pty Ltd**
**3/29 Birnie Ave, Lidcombe NSW 2141**
**Phone: 02 9395 1200 (office hours) Fax: 02 9395 1241**
**www.amgrow.com.au**
**Creation Date:** **December 2020** and is valid for 5 years from this date.
**Poisons Information Centre: Phone 13 1126 from anywhere in Australia**

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as: Xn, Harmful. Xi, Irritating. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG/IMSBC respectively.

**SUSMP Classification: S5**

**ADG Classification: Not a dangerous good under the ADG code for road and rail.**

## GHS Signal word: DANGER

Acute toxicity oral – category 4
Acute toxicity dermal – category 4
Acute toxicity inhalation – category 4
Specific target organ toxicity (repeated exposure) – category 2
Hazardous to the aquatic environment (acute) - category 1
Hazardous to the aquatic environment (chronic) – category 1

**HAZARD STATEMENT:**

H302 Harmful if swallowed
H312 Harmful in contact with skin
H332 Harmful if inhaled
H372 Causes damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects

**PREVENTION**

P102: Keep out of reach of children.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe vapours or spray.
P264: Wash contacted areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye or face protection.

**RESPONSE**

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P304+ P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338+P310 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Immediately call Poisons Information Centre (**13 11 26**) or doctor
P314: Get medical advice/attention if you feel unwell.

P330: Rinse mouth
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.
P391: Collect Spillage

**STORAGE**

P405: Store locked up.
P410: Protect from sunlight.
P402+P404: Store in a dry place. Store in a closed container.

**DISPOSAL**

P501: Dispose of contents and containers as specified on the registered label.

### *Emergency Overview*

**Physical Description & Colour**: Off white suspension
**Odour:** None
**Major Health Hazards:** Harmful if swallowed, in contact with skin and if inhaled. Causes damage to organs through prolonged or repeated exposure

## *Section 3 - Composition/Information on Ingredients*

| *Ingredients* | *CAS No* | *Conc.* |
|---|---|---|
| Fipronil | 120068-37-3 | 100g/L |
| Other non hazardous ingredients | | >60% |

*This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.*

## *Section 4 - First Aid Measures*

**General Information:**
You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.
**Inhalation:** No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.
**Skin Contact:** Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 20 minutes by the clock. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and obtain medical advice.
**Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.
**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.
**NOTE TO PHYSICIAN / FIRST AIDERS**: Treat symptomatically. Fipronil is a reversible gamma amino-butyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Consideration should be given to gastric lavage with an endotracheal tube in place.

## *Section 5 - Fire Fighting Measures*

**Fire and Explosion Hazards**: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.
Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam, water fog.
**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.
**Flash point:** Not flammable
**Flammability Limits:** Not flammable
**Auto ignition temperature:** No data.
**Flammability Class:** Not relevant

## Section 6 - Accidental Release Measures

**Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self contained breathing apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. No special recommendations for clothing materials. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.
Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

## Section 8 - Exposure Controls and Personal Protection

| *Exposure Limits* | *TWA (mg/m3)* | *STEL (mg/m3)* | *ADI (mg/Kg/day)* | *NOEL (mg/Kg/day)* |
|---|---|---|---|---|
| Fipronil | not set | not set | 0.002 | 0.02 |

*Exposure limits have not been set for any other ingredients in product. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A TWA has not been established by Worksafe Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m$^3$ for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2003.*

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems. The following Australian Standards will provide general advice regarding safety clothing and equipment:
Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

### *Personal Protection*

**Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used.
**Skin Protection:** Make sure that all skin areas are covered. See below for suitable material types.
**Protective Material Types:** We suggest that protective clothing be made from the following materials: cotton, rubber, PVC.
**Respirator:** If there is a significant chance that mists or vapours are likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

## Section 9 - Physical and Chemical Properties:

| | |
|---|---|
| **Physical Description & colour**: | Off white suspension |
| **Odour:** | No odour |
| **Boiling Point:** | Approximately 100°C at 100kPa |
| **Freezing/Melting Point:** | Approximately 0°C |
| **Vapour Density:** | No data |
| **Specific Gravity:** | 1.03 – 1.07 |
| **Water Solubility:** | Soluble |
| **pH:** | 7 - 9 |
| **Odour Threshold:** | No data |
| **Evaporation Rate:** | No data |
| **Viscosity:** | No data |

## Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
**Conditions to Avoid:** Extreme heat or fire
**Incompatibilities:** strong acids, strong bases, strong oxidising agents.
**Fire Decomposition:** Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulphur (sulphur dioxide is a respiratory hazard) and other sulphur compounds. Most will have a foul odour. May form hydrogen chloride gas, other compounds of chlorine. May form hydrogen fluoride gas and other compounds of fluorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
**Polymerisation:** This product will not undergo polymerisation reactions.

## Section 11 - Toxicological Information

**Toxicity:** Fipronil is Classed by ASCC as a potential sensitiser by skin contact.
**For Fipronil:** LD50 (Oral), Rat 92mg/kg LD50 (Oral), Mouse 91mg/kg LD50 (Dermal), Rat >2000mg/kg LD50 (Dermal), Rabbit 445mg/kg LC50 (Inhal, 4hr), Mouse 0.36-0.42mg/kg
When Fipronil was administered as a single dose to mice or rats orally or by inhalation, deaths and signs of toxicity occurred at all or most doses in animals of each sex. Most or all of the deaths occurred within several days of treatment. In a toxicity study involving rats, the clinical signs of toxicity did not reach their peak until two days after treatment in some animals, and deaths did not occur until four days after treatment. Some signs of toxicity and body-weight loss were still evident when the observation period ended at day 7 after treatment.

### Classification of Hazardous Ingredients

| Ingredient | Risk Phrases |
|---|---|
| Fipronil | >=10%Conc<25%: Xn; R20/21/22; R48/25 |

Acute toxicity - category 3 (oral, dermal and inhalation)

Specific target organ toxicity (repeated exposure) - category 1

Hazardous to the aquatic environment (acute) - category 1

Hazardous to the aquatic environment (chronic) - category 1

### Potential Health Effects

**Inhalation:** Available data indicates that this product is harmful if inhaled.
**Skin Contact:** Harmful by skin contact
**Eye Contact:** Likely to be irritating to eyes
**Ingestion:** Harmful if swallowed

### Carcinogen Status:

**SWA:** No significant ingredient is classified as carcinogenic by SWA.
**NTP:** No significant ingredient is classified as carcinogenic by NTP.
**IARC:** No significant ingredient is classified as carcinogenic by IARC.

## Section 12 - Ecological Information

**Environmental Data**: Do not contaminate streams, rivers or waterways with this product or the used containers.
**Ecotoxicology**: for the active Ingredient – Fipronil
**Aquatic Toxicity:**
Fipronil is toxic to fish and aquatic organisms.
96 hr $LC_{50}$ (Rainbow trout): 0.248mg/L
96 hr $LC_{50}$ (European carp): 0.430mg/L
48hr $EC_{50}$ (Daphnia magna): 0.19mg/L
**Terrestrial Toxicity:**
Non toxic to earthworms. Fipronil has a low mobility in soil.

## Section 13 - Disposal Considerations

**Disposal:** Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 http://www.chemclear.com.au/ and for help with the disposal of empty drums, contact DrumMuster http://www.drummuster.com.au/ where you will find contact details for your area.

## Section 14 - Transport Information

**ADG Code (Road & Rail Transport**) Exempt AU01 from classification as dangerous goods by the criteria of the Australian dangerous Goods Code 7 (ADG) for the transport by road and rail.

**Transport by Sea or Air**: Classified as a Dangerous Good by the criteria of the International Maritime Dangerous Goods Code (IMDG) for transport by sea and the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.
**UN No**: 3082
**Class**: 9 Miscellaneous Dangerous Goods
**Packing group**: III
**Shipping Name**: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S (CONTAINS Fipronil)
Marine Pollutant
**Hazchem 2Z**

## Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

## Section 16 - Other Information

**This SDS contains only safety-related information. For other data see product literature.**

**Acronyms:**

| | | | |
|---|---|---|---|
| **ADG Code** | Australian Code for the Transport of Dangerous Goods by Road and Rail | **IMDG** | International Maritime Dangerous Good |
| **AICS** | Australian Inventory of Chemical Substances | **IMSBC** | International Maritime Solid Bulk Code |
| **CAS number** | Chemical Abstracts Service Registry Number | **NTP** | National Toxicology Program (USA) |
| **Hazchem Number** | Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters | **SUSMP** | Standard for the Uniform Scheduling of Medicines & Poisons |
| **IARC** | International Agency for Research on Cancer | **SWA** | Safe Work Australia (formerly ASCC and NOHSC) |
| **IATA** | International Air Transport Authority | **UN Number** | United Nations Number |

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document “Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice” (December 2011)





Issued by: Amgrow Pty Ltd Phone: 02 9395 1200 (office hours)

**Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)**