

SEKILAS KARISMA (M) SDN. BHD.
(Co. No. 528804-T)
No.11-2, Jalan Meranti SD 13/4,
Bandar Sri Damansara,
52200 Kuala Lumpur, Malaysia.
Tel: 03-6277 4758/ 03-6272 1678 Fax: 03-6272 9528

SAFETY DATA SHEET

FIPRONIL 5% SC

CAS Number: 120068-37-3

Trade Name: AGENTAL 5 SC

Common Name: Fipronil

Chemical Name: Fipronil ((±-5-amino-1-(2,6-dichloro- α , α , α -trifluoro-*p*-tolyl-4-trifluoromethylsulfinyl)pyrazole-3-carbonitrile)

Chemical Formula: C₁₂H₄Cl₂F₆N₄OS

Chemical Class: Phenylpyrazole insecticide

1. SUBSTANCE/ PREPARATION AND COMPANY IDENTIFICATION

Chemical nature: Insecticide

Distributor: Sekilas Karisma (M) Sdn. Bhd.
No.11-2, Jalan Meranti SD 13/4,
Bandar Sri Damansara,
52200 Kuala Lumpur
MALAYSIA.

Tel: +603- 6272 1678/ +603-6277 4758

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2. COMPOSITION/ INFORMATION ON INGREDIENTS

S.No	Ingredient	Concentration (%)
i.	FIPRONIL	5.0% min
ii.	Other ingredients	95.0% max

3. HAZARDS IDENTIFICATION OF PREPARATION

Acute Health Effects:

Swallowed : Harmful if swallowed.

Eye : Will irritate eyes. May cause weeping and redness

Skin : Will irritate skin. Fipronil does not readily penetrate the skin.

Inhaled : Harmful if inhaled.

Other : Symptoms of overexposure include respiratory difficulty, decreased reflexes, lethargy, tremors and in severe cases, convulsions. Repeated exposure at dose levels that are not acutely toxic may result in symptoms of toxicity.

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or poison information center.

Ingestion: If swallowed, immediately contact a doctor or Poisons Information Centre and follow the advice given. Keep under medical supervision.

Eye contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Seek immediate assistance.

Skin contact: Remove contaminated clothing. Wash affected areas with plenty of soap and water.

Inhalation: Remove victim to fresh air. Seek medical assistance.

First aid Facilities: Ensure washing facilities area available, including eyewash facilities.

Advice to Doctor:

Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Treat symptoms. No specific antidote known. Phenobarbital, and to a lesser extent, benzodiazepines, have been shown experimentally to be effective in preventing convulsions induced by fipronil. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Absorption may be decreased by the use of gastric lavage, saline purgative and activated charcoal (possible entero-hepatic recirculation)

Continue monitoring- due to the slow elimination of the compound.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazard:

Extinguishing Media: Carbon dioxide, water spray, dry agent, foam.

Special Fire Fighting Procedures:

Firefighters should wear full protective gear, including self-contained breathing apparatus (AS/ NZS 1715, 1716). If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water.

6. ACCIDENTAL RELEASE MEASURES

In case of spill or leak:

Avoid contact with the spilled material or contaminated surfaces. When dealing with spills do not eat, drink or smoke and wear personal protective clothing and equipment as described in PERSONAL PROTECTION section. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

7. HANDLING AND STORAGE

Keep out of reach of children. Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: control process conditions to avoid contact. Use local exhaust ventilation during manufacture. Use in a well-ventilated areas only.

Personal Protection:

Eyes: Safety goggles

Clothing: Cotton overalls buttoned to the neck and wrist (or equivalent clothing)

Gloves: Elbow length PVC gloves

Respiratory: Do not breathe vapor or spray. Wear an organic cartridge respirator if inhalation is possible.

Other: Wash hand after use. After each day's use, wash gloves, goggles, respirator face piece and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Off white suspending liquid with slight vegetable oil smell
Density	: 1.05-1.07 at 20 °C.
Vapour pressure	: Low
Flammability Limits	: Not Applicable
Solubility in water	: 1.9 mg/L at 20 °C. (Technical fipronil)
pH	: 3.0 – 6.0
Flash point	: Non flammable
Formulation	: Suspension Concentrate

10. STABILITY AND REACTIVITY

Reactivity Hazards: Stable under normal conditions of use. No dangerous reaction known under normal conditions of use. Avoid extreme heat and fire. Toxic thermal decomposition products may include oxides of carbon, Sulphur and nitrogen, and compounds of chlorine and fluorine.

11. TOXICOLOGICAL INFORMATION

Acute LD50 Oral Rat	: 1148 mg/kg
Acute LD50 Dermal	: Rabbit > 2000 mg/kg
Acute Inhalation	: LC50 (4 h) 1.25 mg/L
Skin irritation	: Rabbit: Practically non-irritating
Eye irritation	: Rabbit: Slight irritant
Sensitisation	: Guinea pig: Not a sensitizer

12. ECOLOGICAL INFORMATION (Technical)

Fish toxicity: LC50 (96h) for bluegill sunfish 85, rainbow trout 248, European Carp 430 µg/L

Bird toxicity: LD50 for mallard duck >2000 mg/kg, pheasant 31, red legged partridges 34, house sparrows 1120, pigeons > 2000mg/kg.

Dietary LC50 (5d) for bobwhite quail 49, mallard duck > 5000mg/kg diet

Bee toxicity: Highly toxic to honey bees both by direct contact and by ingestion. However no risk to bees when used as a soil or seed treatment.

Daphnia: LC50 (48h) 0.19 mg/l

Algae: EC50 (120h) for *Selenastrum Capricornutum* > 0.61 mg/l

13. DISPOSAL CONSIDERATION

Waste Disposal Methods: Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Break, crush or puncture 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 the purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

The product is classified as a Dangerous Good under the Australian Code for the transport of Dangerous Goods by Road and Rail: PESTICIDE, LIQUID, TOXIC, N.O.S (Contains fipronil), Class 6.1, PG III, UN 2902. Must be stored and transported according to local, state/ territory and Federal Regulations.

15. REGULATOR INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes : Acute Health Hazard
Chronic Health Hazard

Section 313 Toxic chemicals : Not Available

Unbreakable packaging: put breakable packaging into closed unbreakable container. Do not transport with food and feedstuff.

16. DISCLAIMER

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Updated on 2nd January 2018