

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-trifluoromethylsulfinylpyrazole-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

Label Elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/ use required

Hazardous components which must be listed on the label:

- Fipronil



Signal word: Warning

Hazard Statements

H302 + H332 Harmful if swallowed or if inhaled

H373 May cause damage to organs (liver, central nervous system) through prolonged or repeated exposure if swallowed.

H410 Very toxic to aquatic life with long lasting effects

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary Statements

P260 Do not breathe dust/ fume/gas/mist/vapours/spray

P280 Wear protective gloves/ protective clothing/eye protection/ face protection

P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician

P501 Dispose of contents/ container in accordance with local regulation

Other hazards: No other hazard known

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 binding area with sand or earth to prevent it entering any bodies of water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions:

Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Use personal protective equipment. Keep unauthorized people away.

Environmental Precautions:

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Methods of cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Use only in area provided with appropriate exhaust ventilation

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work. If necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt)

Conditions for safe storage, including any incompatibilities

Requirement for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.

Suitable materials HDPE (high density polyethylene)

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 rinsing's 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 January 2019