

Material Safety Data Sheet

Date of issue: August 2011

Version: 2

Revised: August 2012

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Pro-Gel

Use: Insecticide

Formulation Type: GL

Manufacturer: Tapazol Chemical works Ltd.

Address: HaSolela 1, West ind. Zone, Beit Shemesh, 99052.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (%)
Fipronil	120068-37-3	0.05

3. HAZARDS IDENTIFICATION

Emergency Overview

Caution! May be harmful if swallowed. Avoid contact with skin, eyes and clothing. Hazard to humans and domestic animals. Keep out of reach of children

and animals.

Routes of Exposure:

Ingestion, Skin contact, Eye contact

Immediate Effects:

- **Eyes:** May irritate the eyes. Avoid contact.
- **Skin:** May be minimally irritating following prolonged direct contact. Avoid contact with skin and clothing.
- **Ingestion:** May be harmful if swallowed. Do not take internally.

Chronic or Delayed Long-Term:

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.

Medical Conditions Aggravated by Exposure:

No specific medical conditions are known which may be aggravated by exposure.

4. FIRST AID MEASURES

General: When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Skin: Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion: Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless

directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation: Move to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Note to physician: There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

5. FIRE-FIGHTING MEASURES

Flash point: > 93.4 °C

Flammable properties: Dangerous gases are evolved in the event of a fire.

Extinguishing media: Water, Foam, Carbon dioxide (CO₂), Dry chemical.

Fire Fighting Instructions: Fight fire from upwind position. Keep out of smoke. Do not allow run-off from fire fighting to enter drains or water courses. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods for Cleaning Up: Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors thoroughly, observing environmental regulations.

Additional Advice: Use personal protective equipment. Do not allow to enter soil, waterways or waste water.

7. HANDLING AND STORAGE

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children and animals.

Handling: Maintain exposure levels low through the use of general and local exhaust ventilation.

Work/Hygienic Procedures: Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly with soap and water after handling and before eating, drinking or smoking.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

General Protection: There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed. Avoid contact with skin and eyes. Follow all label instructions.

Exposure Limits: Not fixed

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: gel- paste

Melting/Boiling point: brown

Odor: cocoa

density: 1.0 +/- 0.1 at 20°C

10. STABILITY AND REACTIVITY

Chemical stability:

Conditions to avoid: Extremes of temperature and direct sunlight.

Exposure to moisture.

Incompatibility: Strong bases, Strong acids and Strong oxidizing agents

Hazardous decomposition products: Thermal decomposition, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen fluoride (HF), Carbon oxides and Hydrogen chloride (HCl)

Hazardous Reactions: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

The non-acute information belongs to technical-grade active ingredient.

Acute toxicity:

Oral: rat: LD₅₀: > 5,000 mg/kg

Dermal: rat: LD₅₀: > 2,000 mg/kg

Inhalation: Exposure time: 4 h , rat: LC₅₀: > 2.9 mg/l

Exposure time: 1 h, rat: LC₅₀: > 11.6 mg/l (Extrapolated from the 4 hr , LC₅₀.)

Skin irritation: rabbit: Slight irritation.

Eye irritation: rabbit: No eye irritation.

Sensitization: guinea pig: Non-sensitizing.

Chronic toxicity:

Fipronil caused liver, kidney or thyroid effects and/or neurobehavioral effects (e.g., tremors) in chronic toxicity studies in rats and dogs. Fipronil did not induce any microscopic lesions in the neural tissues.

Assessment Carcinogenicity: Fipronil has been classified by EPA as a Category C carcinogen based on thyroid tumors in rats only.

These tumors are produced by a mechanism which is not relevant to human cancer. Fipronil did not produce an increase in tumor incidence in mice.

Reproductive & Developmental Toxicity:

- Reproduction: Fipronil was not considered a primary reproductive toxicant in rats.
- Devalopmental Toxicity: Fipronil was not a developmental toxicant in rats and rabbits.

Neurotoxicity: Fipronil caused transient neurobehavioral effects (e.g., tremors) in neurotoxicity studies in rats. Delays in developmental landmarks were observed in rats at maternally toxic doses.

Mutagenicity: Fipronil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

12. ECOLOGICAL INFORMATION

Environmental Precautions:

Do not allow to get into surface water, drains and ground water.

Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

Apply this product as specified on the label.

13. DISPOSAL CONSIDERATIONS

General Disposal Guidance: Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.

Container Disposal: Wrap and discard in trash.

14. TRANSPORT INFORMATION

Not regulated for Transportation

15. REGULATORY INFORMATION

Use as per label instructions

16. OTHER INFORMATION

This MSDS was prepared to the best of our knowledge. For further details please contact Tapazol LTD tel: 02-9926040

Date: 25.08.2011

NFPA 704 (National Fire Protection Association) rating

Health - 1 Flammability - 1 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard