

Material Safety Data Sheet

טריגון - Trignon

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1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Trignon

Use: IGR Insecticide

Formulation Type: EC

Manufacturer: Tapazol Chemical works ltd.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS no. | Quantity (g/l) |
|---------------------|------------|----------------|
| Pyriproxyfen | 95737-68-1 | 100 |
| Hydrocarbon solvent | 64742-94-5 | 600-700 |

AI chemical family: Pyridine.

3. HAZARDS IDENTIFICATION

Human hazards: The product may cause severe eye irritation, skin irritation and sensitization. It is also slightly toxic by inhalation, ingestion and in contact with skin and may cause irritation to the respiratory system and gastrointestinal tract
Hydrocarbon solvent may cause damage to the lungs by inhalation or aspiration.

Environmental hazards: Very toxic for aquatic organisms. May cause long term negative effects in aquatic environment.

4. FIRST AID MEASURES

Eyes: Immediately rinse eyes thoroughly, including under eyelids, with running water for at least 15 minutes. Seek medical advice.

Skin: Wash off skin immediately with soap and plenty of water. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

Ingestion: Rinse mouth with water. Seek medical advice.

Inhalation: Remove person to fresh air. Keep at rest. Seek medical advice if exposure has been more than trivial.

First Aid Facilities: Provide washing facilities in the workplace.

Note to physician: Treatment should be symptomatic and supportive. Gastric lavage is not indicated because of probable mucosal damage. However, the application of activated charcoal and sodium sulphate can be considered in significant ingestions. Do not provoke vomiting in order to avoid pneumonitis.

5. FIRE-FIGHTING MEASURES

Flash point: 63°C.

Flammable properties: Combustible liquid.

Extinguishing media: Foam, dry chemical, water spray. Do not use water jet.

Protective equipment: Full protective gear, including self-contained breathing apparatus.

Hazardous products of combustion may include: Oxides of carbon and nitrogen.

Instructions: If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Contain fire-fighting water by bounding area with sand or earth to prevent it entering any bodies of water. Dispose of extinguishing agent and spillage safely later. Contamination of water bodies should be avoided.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Environmental Protection: Prevent the material from entering sewage and water courses. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local authority.

Procedure: Absorb with material such as sand or sawdust. Sweep up and store in properly labeled, sealed drums for safe disposal. Neutralizing chemicals are not needed. Dike area in case of large spills. Do not use water for cleanup. Report large spills.

For spills in public area, keep public away and advise local authorities.

Wash clothes, equipment and work area after cleaning.

7. HANDLING AND STORAGE

Storage: Store in tightly closed original container in a cool, dry well-ventilated area out of direct sunlight and out from the reach of children. Do not store with food, feedstuffs, fertilizers and seeds.

Handling: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Do not eat, drink or smoke while handling.

Change clothes and wash thoroughly when finishing working with the product.

Wash working clothes in separate from household laundry and do not re-use clothes that are not washed.

See product label for further handling/storage precautions relative to the end use of this product.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission.

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation.

Eye/ Face protection: Wear chemical goggles.

Skin/Body protection: Long pants and long-sleeved shirt, closed working shoes.

Respiratory protection: Wear approved respirator with ABEK P3 filter.

Hand protection: Elbow-length PVC gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear pale yellow liquid.

Odor: Negligible.

Vapor pressure: <0.013mPa (For AI Pyriproxyfen at 23⁰C).

Water solubility: Forms an emulsion.

Specific gravity: 1.047 g/ml at 20⁰C.

pH: 8.2 (undiluted).

Flash Point: 63⁰C.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under ordinary conditions of use and storage

Conditions to avoid: Heat, flame, ignition sources, dusting and incompatibles

Incompatibilities: Strong oxidizers

Hazardous decomposition products: Oxides of carbon and nitrogen.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Pyriproxyfen is an insect juvenile hormone analogue and therefore mammalian toxicity is low. In animal experiments, only diarrhoea was observed.

Acute toxicity:

Oral: LD50 for rat: >2000 mg/kg. Ingestion may irritate gastrointestinal tract.

Dermal: LD50 for rat: >2000 mg/kg.

Inhalation: LC50 (4h) for rat: >1.3 mg/l (for AI Pyriproxyfen). Inhalation of spray mist may cause irritation of the respiration tract.

Skin irritation: Moderate irritant (rabbit).

Eye irritation: Severe irritant (rabbit).

Skin sensitization: Sensitizer (mouse).

Chronic toxicity: Pyriproxyfen is not carcinogenic, mutagenic and does not have developmental or reproductive effects.

12. ECOLOGICAL INFORMATION

For AI Pyriproxyfen:

Fish: LC50 (96h) >0.325 mg/l for rainbow trout.

Daphnia: EC50 (48h): 0.4 mg/l.

Algae: EC50 (72h): 0.064 mg/l.

Birds: LD50 >2000 mg/kg for mallard ducks and bobwhite quail.

Bees: Practically non toxic. LD50 >100 microgram/bee.

13. DISPOSAL CONSIDERATIONS

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 empty containers and dispose in a local authority landfill.

14. TRANSPORT INFORMATION

UN no.: 3082 (Environmentally hazardous substance, liquid, n.o.s).

Class: 9

Packaging group: III

15. REGULATORY INFORMATION

R phrases:

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R36/37/38: Irritating to eyes, respiratory system and skin

R41: Risk of serious damage to eyes

R43: May cause sensitization by skin contact

R50/53: Very toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment

16. OTHER INFORMATION

Disclaimer: The information provided by TAPAZOL CHEMICAL WORKS Ltd.

In the above document is given in good faith and to the best of our knowledge.

However, no warranty is expressed or implied.