



Safety Data Sheet

SDS No.:
SDS-IM/FG-O/01

Ortus 5SC

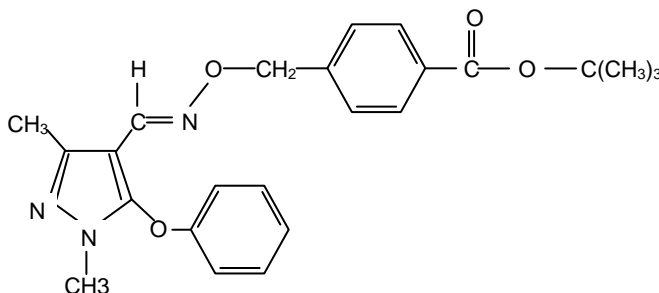
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Fenpyroximate 5% SC
Trade Name: Ortus 5SC
Active Ingredient: tert-Butyl (E)- α -(1,3-dimethyl-5-phenoxy-pyrazol-4-ylmethylene aminoxy)-p-toluate
CAS No.(AI): 134098-61-6
Structural Formula:



Recommended Usage: Acaricide

1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai, Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Eye Irritation, category 2

Pictogram:



Signal Word: Warning

Hazard Statement:
H319: Causes serious eye irritation.



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Precautionary Statement:

P264: Wash face and hands thoroughly after handling.
P280: Wear protective gloves/ eye protection/face protection.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention.

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

| Component | CAS No. | Percent, % | Hazard Code |
|---------------|-------------|------------|-------------|
| Fenpyroximate | 134098-61-6 | 5 | H319 |

Section 4: First-aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
Skin Contact: Wash skin thoroughly with soap and water. Wash contaminated clothing before reuse.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion: Drink a large amount of water. Rinse mouth. Get medical advice/attention.
Symptoms: No data available.
Notes to Physician: No data available.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Water spray, foam, dry chemical powder or carbon dioxide (CO₂).
Specific Hazard during Fire: No data available.
Special Protective Equipment: Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Environmental Precautions: Avoid release to the environment.



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Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Isolate spill area. Liquid spills on floor or other impervious surface should be contained or diked and then absorbed with sawdust, sand, bentonile or other absorbent clays. Collect contaminated absorbent into a metal drum for disposal. Scrub the floor thoroughly with a strong industrial type detergent and rinse with water. When large amount of spill and leakage is found, wear protective clothing and self breathing apparatus to avoid surplus contact. Avoid contaminated absorbents or water flow into pond, river and lake due to danger of acute toxicity to aquatic organisms.

Section 7: Handling and Storage

Precautions for Safe Handling: Handle and open container with care. Avoid contact with skin and eye. Read the label before use. Wash thoroughly with soap and water after handling.

Conditions for Safe Storage: Keep in original container, tightly closed, out of reach of children. Keep container under room temperature, avoid sunlight and freezing.

Incompatibles: No data available.

Section 8: Exposure Control and Personal Protection

Exposure Limit:

| Source | Component | CAS No. | Limit |
|---------|---------------|-------------|--------------------------|
| NICHINO | Fenpyroximate | 134098-61-6 | - 0.07 mg/m ³ |

Engineering Control: If practical, use local ventilation at the sources of air contamination such as process equipment.

Individual Protection Measure: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Personal Protective Equipment:

Eye Protection: Protective goggles

Skin Protection: Protective clothing and impervious gloves

Respiratory Protection: Use approved respiratory protection equipment when airborne exposure limits are exceeded.

Section 9: Physical and Chemical Properties

Appearance: White suspensible liquid

Odour: Characteristic odour

Odour Threshold: No data available



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| | |
|--|--|
| pH: | 5.8 (1% suspension) |
| Melting/Freezing Point: | 101.1 – 102.4°C (Technical) |
| Initial Boiling Point: | No data available |
| Boiling Range: | No data available |
| Flash Point: | No data available |
| Evaporation Rate: | No data available |
| Flammability: | Not inflammable |
| Upper Flammability Limit: | No data available |
| Lower Flammability Limit: | No data available |
| Vapour Pressure: | 5.6 x 10 ⁻⁸ mm/Hg at 25°C (Technical) |
| Vapour Density: | No data available |
| Relative Density: | 1.03 at 20°C (Specific Gravity) |
| Solubility in Water: | Dispersible |
| Partition Coefficient P _{o/w} : | No data available |
| Auto-ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Viscosity: | 250 cp (20°C) |

Section 10: Stability and Reactivity

| | |
|----------------------------------|---------------------------------|
| Reactivity: | No data available. |
| Chemical Stability: | Stable under normal conditions. |
| Hazardous Reaction: | No data available. |
| Condition to Avoid: | No data available. |
| Incompatible Material: | No data available. |
| Hazardous Decomposition Product: | No data available. |

Section 11: Toxicological Information

11.1 Acute Toxicity

| | | |
|--------------------------------|--------------|-------------|
| Oral, LD ₅₀ : | | |
| | Rat (male) | 7.193 mg/kg |
| | Rat (female) | 6.789 mg/kg |
| Dermal, LD ₅₀ : | | |
| | Rat (male) | >4000 mg/kg |
| | Rat (female) | >1000 mg/kg |
| Inhalation, LD ₅₀ : | | |
| | Rat (male) | 1.9 mg/l |
| | Rat (female) | 2.4 mg/l |

11.2 Chronic Effect from Short and Long Term Exposure

| | |
|------------------|-------------------------------|
| Skin Contact: | Not classified as irritant |
| Eye Contact: | Causes serious eye irritation |
| Inhalation: | No data available |
| Ingestion: | No data available |
| Carcinogenicity: | No data available |



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Mutagenicity: No data available
Teratogenicity: No data available

11.3 Symptoms No data available.

Fenpyroximate

In studies of repeated doses for 13 weeks, the rats fed with fenpyroximate showed depression of body weight, effects on organ weights and a slight enlargement of hepatocytes, whereas dogs fed with higher concentration of fenpyroximate exhibited diarrhea, vomiting and depression of body weight. The rats and mice fed with fenpyroximate for 2 years showed depression of body weight only. Clinical parameter indicating organ toxicity was not observed. The fenpyroximate did not produce tumors in females or male rats and mice. No birth defects in rats and rabbits given fenpyroximate orally during the state of pregnancy, even at the amount which would cause toxic effects on the mothers. No effects were observed in the ability of male and female rats to reproduce for two successive generations. The fenpyroximate did not produce genetic changes in standard tests in bacteria or animal cells and animal. In pharmacological studies of safety, fenpyroximate inhibited the electron transport system in the mitochondria, which make up the complex of coenzyme NADPH coenzyme Q reductase. No other specific drug effect was not found.

Section 12: Ecological Information

Ecotoxicity:

| | | |
|---------------------------------|------------|--|
| Carp, LC ₅₀ (48h): | 0.267 mg/l | |
| Daphnia, LC ₅₀ (3h): | 2.2 mg/l | |

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available


Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam or in accordance to local regulation.

Section 14: Transportation Information

Land (ADR/RID)

| | |
|----------------------|---|
| Proper Shipping Name | Environmentally Hazardous Substance, Liquid, N.O.S. |
| Hazard Class | 9 |
| Hazchem Code | - |
| UN number | 3082 |
| Packing Group | III |

| | | |
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| | |
|-------------------------|---|
| Label / Mark | 9 |
| Sea (IMDG) | |
| Proper Shipping Name | Environmentally Hazardous Substance, Liquid, N.O.S. |
| Hazard Class | 9 |
| UN Number | 3082 |
| Packing Group | III |
| Marine Pollutant | - |
| Label | 9 |
| Transport Document Name | - |
| Air (IATA) | |
| Proper Shipping Name | Environmentally Hazardous Substance, Liquid, N.O.S. |
| Hazard Class | 9 |
| UN number | 3082 |
| Packing Group | III |
| Label / Mark | 9 |
| Transport Document Name | - |

Section 15: Regulatory Information

Classification: Eye Irritation, category 2

Signal Word: Warning

Pictogram:



Pesticides Act: Class IV

Classification: -

Section 16: Other Information

Date of Preparation: 18 February 2016

Date of Revision: -

Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
GHS Purple Book

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.