



MATERIAL SAFETY DATA SHEET

Pyrex 5 EC

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name: Fenpyroximate
Trade Name: Pyrex 5EC
Uses category: insecticide/miticide
Type of formulation: Emulsifiable concentrate
Chemical Name : 1, 1-dimethylethyl (E)-4-[[[(1, 3-dimethyl-5-phenoxy-1H-pyrazol-4-yl) methylene] amino] oxy] methyl] benzoate
Chemical Formula: C₂₄H₂₇N₃O₄
Molecular Weight: 421.5

PRODUCT COMPOSITION:

Active Ingredient:	% w/v	CAS #
Fenpyroximate	5%	[134098-61-6]; [111812-589]

Inert ingredient:

Anionic and nonionic surfactant	6 %	-----
(Solv-100)	77.5 %	





HAZARDS IDENTIFICATION:

Emergency overview:

- Pale yellow liquid with a bitter or aromatic odor
- High acute toxicity to aquatic organisms (fish, invertebrates, estuarine and marine organisms)
- Skin and irritant

Potential health effect:

- Eye contact:causes reversible eye injury.
- Skin contact: can cause moderate skin irritation. Harmful if absorbed .through the skin. Does not cause skin sensitization in animal studies.
- Ingestion: no specific health effects are associated with ingestion of a small amount incidental to routine handling and use.
- Inhalation: inhalation of high concentration of this product causes signs of respiratory and secretory irritation.
- Chronic (cancer): EPA has determined there is no evidence of carcinogenicity.

FIRE-FIGHTING MEASURES: -

Flash point :	85.0 °C (185 °F) (closed cup)
Extinguishing media :	Water spray , foam , dry chemical , and carbon dioxide
Special fire-fighting procedure :	Firefighters and others that may be exposed should wear fully protective clothing and self-contained breathing apparatus .due to the danger of acute toxicity to aquatic organisms, avoid permitting extinguishing media , such as water , foam and dry chemicals , flow into ponds , rivers, and lakes .
Unusual fire or explosion hazard :	None





Hazardous combustion products : Carbon dioxide , carbon monoxide , nitrogen oxides

ACCIDENTAL RELEASE MEASURE:

Land spill or leak: liquid spills on the floor or other impervious surface should be contained or diked and then absorbed with sawdust, sand, bentonite, or other absorbent clay. Collect contaminated absorbent, and place it in a metal drum .thoroughly scrub the floor or other impervious surface with a strong industrial – type detergent and rinse with water.

Liquid spills that soak into the ground should be dug up and placed in metal drums. When a large spill or leakage is found, wear protective clothing and self –contained breathing apparatus to avoid contact.

Avoid contaminated absorbent or water flow into ponds, rivers and lakes, due to the danger of acute toxicity to aquatic organisms.

PERSONAL PROTECTION/SAFTETY:

Engineering control:

(Local exhaust): ventilation may be necessary under certain confined condition. If practical, use ventilation at the sources of air contamination.

Personal protective equipment:

Eye protection: wear protective eyewear (safety glasses; for chemical workers, goggles or face shield) to prevent eye contact.

Skin protection: wear long-sleeved shirt, long pants, shoes plus socks and chemical resistant gloves (such as barrier laminate or Viton) to prevent skin contact. Wash contaminated skin promptly. Lander contaminated clothing and protective equipment. Wash thoroughly after handling.

Respiratory protection: Avoid breathing mist. If ventilation is inadequate, use approved respiratory protection equipment (combination or gas \ vapor respirator) when handling large quantities or handling large spills.





HANDLING AND STORAGE:

Handling precaution:

- Open container with care.
- Use adequate ventilation.
- Avoid handling near an open flame or heat source or ignition.
- Do not contaminate water by cleaning of equipment or disposal of waste.
- Avoid contact with skin, eyes, or clothing.
- Do not eat, drink, smoke, or chew gum or tobacco while handling this product and until hands and face are thoroughly washed with soap and water.
- Do not use the toilet before thoroughly washing hands.
- Remove contaminated clothing immediately and wash thoroughly Before reuse.
- In direct sunlight Keep container closed. Store in original container.
- Store product between the temperatures of 0 °C to 38 °C
- Avoid storage in direct sunlight, excessive heat or cold.

STABILITY AND REACTIVITY:

Storage Stability	Stable under normal condition (25°C) for at least 12 months
Incompatibility with other materials	Not known
Auto ignition	none
Hazardous polymerization	none
Flammable point	none
Hazardous decomposition products	none

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	pale yellow liquid
Specific gravity	1.0061 20 °C





pH:	6.13 at 25 °c
Vapor pressure:	<7.50 x 10 ⁻⁸ torr
Density:	8.37 lb\US gal
viscosity :	5.9 cP at 30rpm at 20 °C
Flash point :	85.0 °C (185 °F) (closed cup)

TOXICOLOGICAL INFORMATION:

The following data were developed using fujimite 5EC:

Oral LD50 (rate):	Male: 810 mg\kg; female: 1400 mg\kg
Dermal LD50 (rate):	Male and female combined :> 5,000 Mg\kg
Inhalation LD50 (rate):	Male :0.63 mg\l (4 hrs) Female :0.51 mg\kg (4 hrs)
Eye irritation (rabbit) :	Moderately irritating MMTS 30.0
Skin irritation (rabbit):	Moderately irritating PDII 4.6
Skin sensitization (guinea pig):	Non sensitizing

The following data were developed using fenpyroximate technical:

Sub chronic and chronic effects:

Fenpyroximate technical was shown to have no target organ Effect in the 90-day animal studies. Effect of decreased body weight and food consumption was observed in rat at 7.4 mg\kg\day and in dogs at 2 mg\kg\day.

In long – term chronic studies no target organ toxicity was observed. Reduction in body weight was seen at 3-4 mg\kg\day in the rat in a 2-year study. Similarly weight loss was observed after a one – year exposure to dogs at 15 mg\kg\day and after an 18 – month exposure to mice at 9.5 mg\kg\day.





Cancer effect:

Fenpyroximate was tested in lifetime studies in rat and mice and was not carcinogenic.

Teratogenicity (birth effect):

Fenpyroximate technical demonstrated no developmental toxicity in the rabbit or rat at dose levels up to 5 mg/kg/day.

Reproduction:

Fenpyroximate demonstrated no adverse effect on reproductive performance in a two generation rat reproduction study. The highest dose tested (6.6-8.6 mg/kg/day) resulted in decreased weight gain in both the parents and offspring.

Mutagenicity (genetic effects):

Fenpyroximate was not mutagenic when tested in a battery of five different test systems.

ECOLOGICAL INFORMATION: -

This product is very highly toxic to fish and aquatic invertebrates. Don't apply directly to water. Do not contaminate water when cleaning equipment wash waters or rinsate.

DISPOSAL CONSIDERATIONS:

General disposal:

Any disposal practice must be in compliance with all federal, state, provincial and local laws and regulation. State (provincial) and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulation. Chemical addition, processing, storage or otherwise altering this material may make the waste disposal information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of material.

Refer to appropriate federal (RCRA: 40 CFR. 261), state, provincial, or local requirement for proper classification information. For regulatory information on the ingredient components.





Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of federal law. If these waste can't be disposed of by use according to label instructions. Contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Container disposal:

Do not reuse or refill container. Triple rinse (or equivalent) and puncture. Then offer for recycling or reconditioning or dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

