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MATERIAL SAFETY DATA SHEET

MSDS No. 940-23(M67B)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the preparation

Product name: **NNI-850 5SC, FENPYROXIMATE 5SC**

1.2 Use of the preparation

Acaricide

1.3 Company/undertaking identification

Manufacturer

Nihon Nohyaku Co., Ltd.

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Emergency telephone number

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4550 New Linden Hill Road, Suite 501, Wilmington,
 Delaware 19808, USA
 Phone: 1-302-636-9001 Facsimile: 1-302-636-9122

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Ingredients and composition:

Active ingredient : t-butyl(E)-alpha-(1,3-dimethyl-5-phenoxyprazol-4-yl methylene aminoxy)p-toluate (Common name: Fenpyroximate)

Components

Ingredient	%	CAS No.
Fenpyroximate	5.0	134098-61-6
Others		
Propyren glycol	10.0	57-55-6
Dispersant	4.0	-
Inert ingredients	1.0	-
Water	80.0	-

3. HAZARD IDENTIFICATION

Classification (UN classification): Class 9, Environmentally hazardous substance

Physical and chemical hazards: Not applicable

Adverse human health effects

- Eye contact: Contact with this product may cause eye irritation, but temporary injury.
- Skin contact: Prolonged contact with this product may cause slight rash in susceptible individuals. Repeated contact may cause allergic reaction in susceptible individuals.
- Ingestion: Ingestion of large amount of this product may cause oral discharge, fecal staining, soft stool and/or hypoactivity. Characteristic symptoms were not found.
- Inhalation: Inhalation of high concentration of this product causes signs of secretory and respiratory irritations and fine tremors.

Environmental effect: Toxic to aquatic organisms.

4. FIRST-AID MEASURES

- Eye contact: Flush eyes with plenty of water for at least 15 minutes and get medical attention.
- Skin contact: Remove contaminated clothing. Wash skin with plenty of water and soap. If irritation persists, get medical attention. Wash contaminated clothing before use. Sensitized persons should avoid further contact and reuse of clothing.
- Ingestion: If swallowed, rinse mouth with water and give one or two glasses of water to drink. Keep patient at rest and get medical attention. Do not induce vomiting.
- Inhalation: Remove patient to fresh air, keep warm and at rest. Get medical attention as a precaution.

5. FIRE-FIGHTING MEASURES

- Fire-fighting procedure: Firefighters should wear proper protective equipment and self-breathing apparatus. Avoid inhalation gas and contact with skin and eyes. Avoid extinguishing media such as water and foam, to flow into pond, river and lake due to danger of acute toxicity to aquatic organisms.
- Hazardous combustion products: Combustion or thermal decomposition may evolve toxic vapors. (CO₂, CO, NO_x, etc.)
- Extinguishing media: Foam, dry chemical powder, carbon dioxide or water (spray).

6. ACCIDENTAL RELEASE MEASURES

Evacuate nonessential personnel. Wear proper equipment. Adsorb spillage onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with detergent and water. Washing must be prevented from entering surface water or drains due to danger of acute toxicity to aquatic organisms.

7. HANDLING AND STORAGE

- Handling: Avoid contact with skin and eyes. Do not breathe spray mist or vapor. Use with adequate ventilation. Wash face and hands with soap and water after handling the material.

Storage: Keep locked up and out of reach of children in a cool, dark and well-ventilated place. Keep in original containers tightly closed. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure limit values

INGREDIENT	Exposure limits			
	OSHA	ACGIH	JAIH*	NICHINO**
Fenpyroximate	-	-	-	0.07 mg/m ³

*: Japan Association of Industrial Health

** : Nihon Nohyaku exposure limit

-: Not established

8.2 Exposure control

Use with local exhaust ventilation.

Make available in the work area emergency shower and eyewash.

Personal protective equipment

Respiration protection: Avoid breathing mist or vapor. Use approved respiratory protection equipment when airborne exposure limits are exceeded.

Eye protection: Wear chemical safety goggles.

Hand, skin and body protection: Suitable groves and protective clothes. Launder contaminated cloths and clean protective equipment. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Whitish suspension
 Specific gravity: 1.01-1.05/20°C
 pH: 5.0-8.5 (1% aqueous suspension)
 Flash point: None
 Auto ignition: None

10. STABILITY AND REACTIVITY

Chemical stability: This product is stable for at least three years under normal storage and handling conditions.
 Incompatibility with other materials: Not known
 Hazardous polymerization: Not known
 Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapors (CO, NOx etc.).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral: Rat LD50(mg/kg) male 7,193 female 6,789
 Dermal: Rat LD50(mg/kg) male, female >2,000
 Inhalation: Rat LC50(mg/L) male 5.1(4h) female 3.4(4h)
 Eye irritation: Rabbit Moderate irritant
 Skin irritation: Rabbit Slight or moderate irritant
 Sensitization: Guinea pig Negative

12. ECOLOGICAL INFORMATION

Aquatic organisms toxicity

Rainbow trout	LC50/96h	0.041mg/L
Daphnia	EC50/48h	0.0217mg/L
Algae	EbC50/72h	0.11mg/L

13. DISPOSAL CONSIDERATIONS

Excess product and rinsate should be disposal of according to label instructions and/or local regulations. Dispose used container according to the local regulations. Repealing liquid containing fenpyroximate should be avoid to flow into river, pond and lake due to danger of acute toxicity to aquatic organisms.

14. TRANSPORT INFORMATION

Follow the precaution indicated in the HANDLING AND STORAGE section. Confirm that the material does not leak and treat carefully not to break the packing. Follow all regulations in your country.

UN Classification: Class 9, UN No.3082 (Environmentally hazardous substance, liquid, N.O.S),
Packaging group III
IMDG Code: Marine pollutant

15. REGULATORY INFORMATION

Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

The information on this sheet is not a specification. It does not guarantee specific properties. This information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of product. It is not applicable to unusual or nonstandard uses of product, nor where instructions or recommendations are not followed.
