

**Nichino America, Inc.**  
**Portal® Miticide/Insecticide**  
**Safety Data Sheet**

**1. IDENTIFICATION**

**Product Name:** Portal Miticide/Insecticide  
**General Use:** Miticide/Insecticide  
**Product Description:** Emulsifiable Concentrate  
**EPA Reg. No.:** 71711-19

**Manufacturer**  
**Main Headquarters:** Nihon Nohyaku Co., Ltd., Kyobashi OM Building, 19-8  
Kyobashi 1 chome, Chuo-ku, Tokyo 104-8386 JAPAN

**US Connection:** Nichino America Inc.  
4550 Linden Hill Road, Suite 501  
Wilmington, Delaware 19808 USA  
Phone: 302-636-9001  
Fax: 302-636-9122

**Emergency and Health and  
Safety Inquiries:** (800) 348-5832 (24-hours)  
**In case of fire or spills:** (800) 424-9300 (24-hours)  
**In case of international shipments:** (703) 527-3887 (24-hours)

**2. HAZARD(S) IDENTIFICATION**

*Classified according to OSHA 29 CFR 1910.1200 HCS*

**Classification:**

Flammable Liquid	Category 4
Acute Toxicity (Oral)	Category 4
Acute Toxicity (Inhalation):	Category 3
Skin Irritation	Category 2
Eye Irritation	Category 2A
Carcinogenicity	Category 2
Aspiration Hazard	Category 1

**Signal Word:** DANGER



**Hazard Statements:**

Combustible liquid  
May be fatal if swallowed and enters airways  
Harmful if inhaled  
Causes skin irritation  
Causes serious eye damage  
Suspected of causing cancer  
May damage fertility or the unborn child

**Precautionary Statements:**

Prevention:

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use only outdoors or in a well-ventilated area.  
Keep away from flames and hot surfaces. No smoking.  
Avoid breathing mists, vapors, and/or spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash thoroughly after handling.

Response:

In case of FIRE: Use appropriate media to extinguish.  
If ON SKIN: Wash with plenty of water.  
Specific treatment, see supplemental first aid information.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a poison control center or doctor/physician.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
Do NOT induce vomiting.  
If INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
If exposed or concerned: Get medical advice/attention.

**Storage:**

Store in a well-ventilated place. Keep cool.  
Store locked up.

**Disposal:**

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Percentage
Fenpyroximate CAS Name: Benzoic acid, 4-((((1,3-dimethyl-5-phenoxy-1H-pyrazol-4-yl)methylene)amino)oxy)methyl)-, 1,1-dimethylethyl ester, (E)-	134098-61-6	5.0%
Calcium dodecylbenzenesulfonate	26264-06-2	2.5 – 5.0%
*Other ingredients		90.0 – 92.5%

\*Specific chemical identity and percentage of composition withheld as a trade secret

**4. FIRST AID MEASURES**

**Eye Contact**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Inhalation**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion**

Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**Skin Contact** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Most important symptoms and effects, both acute and delayed:** Refer to Section 11 – Toxicology Information.

**Note to Physician:** Contains petroleum distillate. Vomiting may pose an aspiration pneumonia hazard. Probable mucosa damage may contraindicate the use of gastric lavage.

**5. FIRE FIGHTING MEASURES**

<b>Suitable extinguishing media:</b>	Water spray, foam, dry chemical, or carbon dioxide
<b>Unsuitable extinguishing media:</b>	No information available.
<b>Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products):</b>	Combustion or thermal decomposition may evolve toxic vapors (Carbon monoxide, nitrogen oxides, etc.)
<b>Special protective equipment and precautions for fire-fighters:</b>	Firefighters should wear positive pressure, self-contained breathing apparatus. Avoid runoff from extinguishing media, such as water, foam, and dry chemicals, into ponds, rivers, and lakes due to the danger

**6. ACCIDENTAL RELEASE MEASURES**

**General and Disposal:** Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with federal or local disposal regulations (see Section 13). Notify the appropriate authorities immediately (see Section 15 for any applicable Reportable Quantity (RQ)). Report to authorities if contamination of waterways has occurred.

**Land Spill or Leak:** Liquid spills on the floor or other impervious surfaces 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 respirator to avoid exposure.

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

## 7. HANDLING AND STORAGE

**Notify the appropriate authorities immediately (see Section 15 for any applicable Reportable Quantity). Also report to authorities if contamination of waterways has occurred.**

### Handling Precautions:

- Open container with care.
- Use adequate ventilation.
- Avoid handling near an open flame or heat source or ignition source.
- 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.

### Storage Precautions:

- Keep container closed. Store in original container.
- Keep container at room temperature or store in a cool place.
- Avoid storage in direct sunlight, excessive heat or cold.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Controls

**(Local exhaust):** Ventilation may be necessary under certain confined conditions. If practical, use ventilation at the sources of air contamination. Control airborne contaminants below the exposure guidelines (see below for any applicable OSHA / ACGIH exposure limits).

**Personal Protective Equipment:**

**Eye/Face Protection:** Wear protective eyewear (safety glasses; for chemical workers, goggles or face shield) to prevent eye contact.

**Skin Protection:** Wear coveralls. To prevent skin contact, wear chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber, or viton. Wash contaminated skin promptly. Launder contaminated clothing and protective equipment. Wash thoroughly after handling.

**Respiratory Protection:** Ensure good ventilation. Avoid spraying mist. If ventilation is inadequate, use approved respiratory protection equipment (combination or gas/vapor respirator) when handling large quantities or handling large spills.

**Exposure Limits:**

<b>Ingredient:</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>
Naphthalene	TWA: 10 ppm STEL: 15 ppm	10 ppm (50 mg/m <sup>3</sup> )
1-methylnaphthalene	TWA: 0.5 ppm skin notation	None
2-methylnaphthalene	TWA: 0.5 ppm skin notation	None

TWA = time-weighted average

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Pale yellow liquid
<b>Odor</b>	Bitter or aromatic odor
<b>Odor Threshold</b>	Unknown
<b>pH</b>	6.13 at 25°C
<b>Melting point/freezing point</b>	
<b>Initial boiling point and boiling range</b>	
<b>Flash point</b>	85.0°C (185°F) (closed cup)
<b>Evaporation rate</b>	
<b>Flammability (solid, gas)</b>	
<b>Upper/lower flammability or explosive limits</b>	
<b>Vapor pressure</b>	<1.00 x 10 <sup>-5</sup> Pa (<7.50 x 10 <sup>-8</sup> torr) at 25°C (technical grade active ingredient)
<b>Vapor density</b>	

<b>Relative density</b>	1.004 g/mL @ 20.0 ± 0.1°C
<b>Solubility(ies)</b>	
<b>Partition coefficient (n-octanol/water)</b>	
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available.
<b>Viscosity</b>	5.9 cP at 30 rpm and 5.55 cP at 60 rpm

TGAI = Technical Grade Active Ingredient

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Non-reactive
<b>Chemical stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	None known
<b>Conditions to avoid</b>	Combustion and thermal decomposition that may result in hazardous combustion products listed below and in Section 5.
<b>Incompatible materials</b>	None known
<b>Hazardous decomposition products</b>	Combustion or thermal decomposition will evolve toxic oxides of carbon and nitrogen (HCl, HF, CO <sub>2</sub> , CO, NO <sub>x</sub> ).

## 11. TOXICOLOGICAL INFORMATION

The following data were developed using Portal:

**Acute Studies:**

<b>Oral LD<sub>50</sub> (rat):</b>	Female: 1004 mg/kg
<b>Dermal LD<sub>50</sub> (rat):</b>	Male and Female combined: >5,000 mg/kg
<b>Inhalation LC<sub>50</sub> (rat):</b>	Male ≥ 0.63 mg/L; Female = 0.51 – 1.99 mg/L (4 hrs)
<b>Eye irritation (rabbit):</b>	Moderately irritating
<b>Skin irritation (rabbit):</b>	Moderately irritating
<b>Skin sensitization (guinea pig):</b>	Non-sensitizing

**Aspiration hazard** - If swallowed, may be aspirated and cause lung damage.

The following data were developed using fenpyroximate technical:

**Subchronic and Chronic Effects:**

Fenpyroximate technical was shown to have no target organ effects in the 90-day animal studies. Effects of decreased body weight and food consumption were observed in rats 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 Effects:**

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

**Teratogenicity (Birth Defects):**

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

**Reproductive Effects:**

Fenpyroximate demonstrated no adverse effects 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.

**Neurotoxicity:**

There is no evidence from acute or subchronic neurotoxicity studies in rats that fenpyroximate specifically targets the nervous system.

In the acute neurotoxicity study, decreased motor activity occurred in the presence of systemic toxicity, as manifest by decreased body weight and food consumption, and in the absence of neuropathology. In the subchronic study, no alterations in neurobehavior or neuropathology alterations were observed. Deficits in body weight and food consumption were evident.

**Immunotoxicity:**

No effects on the immune functions, as assessed by measurement of antigen-specific, T-cell antibody formation were seen at any dose level.

**Mutagenicity (Genetic Effects):**

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

**Toxicity of other components:**



**Solvent naphtha (petroleum), heavy aromatic**

If swallowed, may be aspirated and cause lung damage.

**Naphthalene**

Naphthalene caused cancer in laboratory animal studies but the relevance of these findings to humans is uncertain. Naphthalene is listed as “reasonably anticipated to be a human carcinogen” by NTP and “possibly carcinogenic to humans (Group 2B)” by IARC.

**12. ECOLOGICAL INFORMATION**

**Ecological data were developed using fenpyroximate technical.**

**Environmental Precautions:**

This product is very highly toxic to fish and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

**13. DISPOSAL CONSIDERATIONS**

**General Disposal:**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations. State (provincial) and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Chemical additions, 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 the material.

Refer to appropriate federal (RCRA: 40 CFR.261), state/provincial, or local requirements for proper classification information. For regulatory information on the ingredient components, see Section 15.

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 wastes cannot 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:**

**Nonrefillable container equal or less than 5 gallons:** DO NOT reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State or local authorities, by burning. If burned, stay out of smoke.

**(Non-refillable container greater than 5 gallons)**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple Rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and 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.

**Refillable container greater than 5 gallons:**

Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Then offer for recycling if available or puncture and 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.

**14. TRANSPORT INFORMATION**

Liquid transport:

<b>DOT:</b>	Non-bulk (≤ 119 gallons or 450L): Not regulated  Bulk (>119 gallons or 450L): NA 1993, Combustible liquid, n.o.s. (petroleum distillate mixture), Comb liq, PG III
<b>IATA</b>	UN 3082, Environmentally hazardous substance, liquid, n.o.s, (fenpyroximate), Class 9, PG III.
<b>IMDG</b>	UN 3082, Environmentally hazardous substance, liquid, n.o.s, (fenpyroximate), Class 9, PG III, Marine Pollutant, EmS: F-A; S-F.

**Portal Miticide/Insecticide is not regulated for transport under DOT in non-bulk containers.**

**15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**WARNING**

Causes substantial but temporary eye injury.  
 Harmful if inhaled or swallowed.  
 Do not get in eyes or on clothing.  
 Avoid contact with skin and breathing spray mist.

**U.S. Federal Regulatory Information:**

**EPA Registration Number:** 71711-19  
**TSCA Inventory:** Registered pesticide; exempt from TSCA

**SARA Title III Notification and Information:**

**Section 302 (EHS) Ingredients:** None  
**Section 304 (EHS)**  
**or CERCLA Ingredients (RQ):**

Name	CAS #	Final Reportable

		<b>Quantity</b>
Calcium dodecylbenzenesulfonate	26264-06-2	1,000 lbs

**Section 313 Ingredients:**

None

**U.S. State Regulatory Information:**

**U.S. State Right-to-Know (RTK) Ingredients:**

- None

**California Proposition 65 List:**

- None

**16. OTHER INFORMATION**

**HMIS® Hazard Rating:**

Health: 2\*

Flammability: 2

Physical Hazard: 1

\*indicates both acute and chronic health hazard

**NFPA Hazard Rating:**

Health: 2

Flammability: 2

Instability: 0

Special Hazards: None

Prepared by: Regulatory Affairs

Date: 7/12/2017

Reason for Editing: Corrected error in Section 14.

**Disclaimer of Expressed and Implied Warranties:**

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with FIFRA label instructions.