

**Nichino America, Inc.**  
**PQZ Insecticide**  
**Safety Data Sheet**

**1. IDENTIFICATION**

**Product Name:** PQZ Insecticide  
**General Use:** Insecticide  
**Product Description:** Suspension Concentrate  
**EPA Reg. No.:** 71711-37

**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:**  
Acute Toxicity (Oral): Category 4  
Skin Sensitization: Category 1B  
Acute Toxicity (Inhalation): Category 4  
Specific Target Organ Toxicity (Repeated Exposure): Category 2

**Signal Word:** **WARNING**



**Hazard Statements:**

- Harmful if swallowed
- May cause an allergic skin reaction
- Harmful if inhaled
- May cause damage to organs (blood system, liver, kidney) through prolonged or repeated exposure

**Precautionary Statements:**

Prevention:

Do not breathe mists, vapors, and/or spray.  
Wash thoroughly after handling.  
Do not eat, drink, or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.

Response:

If INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
If ON SKIN: Wash with plenty of water.  
Wash contaminated clothing before reuse.  
Specific treatment, see supplemental first aid information.  
If skin irritation or rash occurs: Get medical advice/attention.  
If SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
Rinse mouth.  
Get medical advice/attention if you feel unwell.

Storage:

No precautionary statement necessary.

Disposal:

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percentage
Pyrifluquinazon CAS name: 2(1H)-Quinazolinone, 1-acetyl-3,4-dihydro-3-[(3-pyridinylmethyl)amino]-6- [1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-	337458- 27-2	20.0%
*Other ingredients		80.0%

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

### 4. FIRST AID MEASURES

**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.

**Ingestion**

Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Refer to Section 11 for Toxicological Information.

### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Water, foam, carbon dioxide, or dry chemical.
<b>Unsuitable extinguishing media</b>	No information available

<b>Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products)</b>	Will burn to give off toxic oxides of carbon and nitrogen.
<b>Special protective equipment and precautions for fire-fighters</b>	Keep out of smoke. Fight fire from an upwind position. Wear positive pressure self-contained breathing apparatus. Spray containers with water to keep cool. Avoid runoff from extinguishing media such as water, foam, and dry chemicals into ponds, rivers, and lakes due to danger of acute toxicity to aquatic organisms. Use dikes to prevent contamination of water supplies.

## 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 water enters watercourse or sewer.

### **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

### **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 tightly closed. Store in original container.
- Keep container at room temperature or store in a cool dry 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 (PPE):**

**Applicators and other handlers of agricultural products must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, made of material such as barrier laminate or Viton
- Shoes plus socks

**Agricultural Use Requirements – for uses of this product that are covered by the Worker Protection Standard 40 CFR Part 170 – PPE required for early entry into treated areas:**

- Coveralls
- Chemical-resistant gloves, made of material such as barrier laminate or Viton
- Shoes plus socks

**Respiratory Protection:** Ensure good ventilation. Avoid breathing mist. If ventilation is inadequate, use approved respiratory protection equipment when airborne exposure limits are exceeded.

**Exposure Limits: None**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Off-white liquid
<b>Odor</b>	No odor detected
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	6.5 (as 1% w/v suspension)
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	Boiling point = 87°C
<b>Flash point</b>	No flash point under test conditions
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	Not explosive
<b>Vapor pressure</b>	$5 \times 10^{-8}$ Pa (Pyrifluquinazon pure grade active ingredient)
<b>Vapor density</b>	No data available
<b>Relative density</b>	1.12 at 20°C
<b>Solubility(ies)</b>	Water = 0.0121 g/L 20°C
<b>Partition coefficient (n-octanol/water)</b>	Log Pow = 3.12 at 25°C (pyrifluquinazon TGAI)
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	120-3600 mm <sup>2</sup> /s (cSt) at 20°C and 60-2600 mm <sup>2</sup> /s (cSt) at 40°C

TGAI = Technical Grade Active Ingredient

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Non-reactive toward monoammonium phosphate, zinc, potassium permanganate, and water
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<b>Chemical stability</b>	This product is stable for at least 12 months of storage at ambient temperatures
<b>Possibility of hazardous reactions</b>	None known
<b>Conditions to avoid</b>	None known
<b>Incompatible materials</b>	None known
<b>Hazardous decomposition products</b>	Combustion or thermal decomposition will evolve toxic and irritant vapors (CO, NOx, etc.)

## 11. TOXICOLOGICAL INFORMATION

The following data were developed using PYRIFLUQUINAZON Insecticide:

### Acute Studies:

<b>Oral LD<sub>50</sub> (rat):</b>	2000 mg/kg
<b>Dermal LD<sub>50</sub> (rat):</b>	> 2000 mg/kg
<b>Inhalation LC<sub>50</sub> (rat):</b>	> 2.10 mg/L (4 hrs.)
<b>Eye irritation (rabbit):</b>	Mildly irritating
<b>Skin irritation (rabbit):</b>	Slightly irritating
<b>Skin sensitization (mice):</b>	Sensitizing

The following data were developed using pyrifluquinazon technical:

### Chronic Effects:

Target organ effects after long term administration of pyrifluquinazon included liver, thyroid, hematopoietic system, kidney, and reproductive organ toxicity. Nasal toxicity was observed following chronic oral, but not inhalation, exposure.

### Cancer Effects:

Pyrifluquinazon is not classified as carcinogenic by IARC, OSHA, or NTP. There was an increased incidence of benign testicular interstitial cell (Leydig cell) tumors in male mice following long-term administration of pyrifluquinazon. The US EPA has concluded that pyrifluquinazon is not likely to be carcinogenic to humans at levels that do not alter rodent homeostasis.

### Teratogenicity (Birth Defects):

Pyrifluquinazon is a developmental toxicant in both rats and rabbits. Fetal effects were observed at doses lower than those that produced maternal toxicity.

**Reproductive Effects:**

Pyrifluquinazon is a reproductive toxicant. Adverse effects in offspring were observed at doses lower than those that produced parental toxicity.

**Neurotoxicity:**

There was no evidence of neurotoxicity in the absence of systemic toxicity in either short or long-term studies with pyrifluquinazon.

**Immunotoxicity:**

There were no immunologic effects detected in male and female dogs following repeated oral administration of pyrifluquinazon technical under the conditions of an immunological study.

**Mutagenicity (Genetic Effects):**

Pyrifluquinazon is not mutagenic or genotoxic.

**12. ECOLOGICAL INFORMATION**

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

**Environmental Precautions:**

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Avoid spraying ponds or aquaria containing fish. Do not contaminate water by cleaning of equipment or when disposing of equipment wastewaters or rinsate.

**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 plastic container (less than 5 gallons)

Nonrefillable container. Do not reuse or refill this container. Clean container 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 if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**14. TRANSPORT INFORMATION**

<b>DOT:</b>	Not regulated
<b>IATA:</b>	UN 3082, Environmentally hazardous substance, liquid, n.o.s., (pyrifluquinazon), Class 9, PG III.
<b>IMDG:</b>	UN 3082, Environmentally hazardous substance, liquid, n.o.s, (pyrifluquinazon), Class 9, PG III, EMS: F-E, S-D, Marine Pollutant.

PYRIFLUQUINAZON Insecticide **is not regulated for transport** unless shipped by water or air.

**15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the 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 and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION**

Harmful if absorbed through skin  
Harmful if swallowed

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

**EPA Registration Number:** 71711-37

**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):** None

**Section 313 Ingredients:** None

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

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

- Propylene glycol (CAS 57-55-6)

**California Proposition 65 List:**

- None

**16. OTHER INFORMATION**

**HMIS® Hazard Rating:**

Health: 2

Flammability: 1

Physical Hazard.: 0

**NFPA Hazard Rating:**

Health: 2

Flammability: 1

Reactivity: 0

Specific Hazard: None

Prepared by: Regulatory Affairs  
Date: 11/19/2018  
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**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.