
Product Name: Pyrenone® O.T. 75-7.5 Insecticide
Product Code: 15383
MSDS Number : ENV-0038 Rev 0
Version Date: October 5 2001

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Material Safety Data Sheet

----- 1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION -----

Product Name: Pyrenone® O.T. 75-7.5 Insecticide
Product Code: 15383
MSDS Number : ENV-0038
Chemical Family: Mixture
Chemical Formula: Mixture
EPA Registry Number: 73049-218
MANUFACTURER: Valent BioSciences Corporation
870 Technology Way, Suite 100
Libertyville, Illinois 60048

EMERGENCY TELEPHONE NUMBERS

Emergency Health or Spill:

Outside the United States: 651-632-6184
Within the United States: 877-315-9819

Pyrenone is a registered trademark of Aventis.

----- 2. COMPOSITION / INFORMATION on INGREDIENTS -----

Component	Cas number	%
Pyrethrin	8003-34-7	7.5%
Piperonyl butoxide	51-03-6	75%
Aliphatic Petroleum Distillates	64742-47-8	> 10%

----- 3. HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:

- A medium to dark amber, slightly viscous liquid that is:
- Harmful if swallowed or absorbed through skin.
 - Toxic to fish.

POTENTIAL HEALTH EFFECTS

ROUTES OF EXPOSURE:

Ingestion and skin contact.

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----- **3. HAZARDS IDENTIFICATION (Continued)** -----

SIGNS AND SYMPTOMS OF EXPOSURE:

May cause gastrointestinal effects such as nausea, vomiting and diarrhea. Ingestion of large quantities can result in nervous system effects such as dizziness, loss of coordination, tremors and loss of consciousness. Symptoms usually regress with no long lasting effects.

IMMEDIATE EFFECTS

SKIN:

Harmful if absorbed.

INGESTION:

Harmful if swallowed.

DELAYED/LONG TERM EFFECTS

CARCINOGENIC:

See Section 11 for carcinogenic/oncogenic information on piperonyl butoxide and pyrethrum.

----- **4. FIRST AID MEASURES** -----

After contact with skin:

Wash with plenty of soap and water. Get medical attention if necessary.

After ingestion:

Do not induce vomiting. This product contains petroleum distillate. Aspiration may be a hazard.

----- **5. FIRE FIGHTING MEASURES** -----

FLAMMABLE PROPERTIES

Flash point: 150°F 66°C TCC

Advice on protection against fire and explosion:

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

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----- **5. FIRE FIGHTING MEASURES (Continued)** -----

Suitable extinguishing media:

Carbon dioxide, dry chemical or foam.

----- **6. ACCIDENTAL RELEASE MEASURES** -----

Soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

----- **7. HANDLING and STORAGE** -----

Handling:

- Avoid contact with skin or clothing.
- Avoid contamination of feed and foodstuffs.

Storage:

Store upright at room temperature. Avoid exposure to extreme temperatures.

----- **8. EXPOSURE CONTROLS / PERSONAL PROTECTION** -----

Additional advice on system design:

ENGINEERING CONTROLS: Normal, mechanical exhaust is recommended.

Hygiene measures:

Wash thoroughly with soap and water after handling.

Personal protective equipment

Body protection:

Impervious gloves.

Eye protection:

Safety glasses or goggles.

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----- **8. EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)** -----

EXPOSURE GUIDELINES:

Pyrethrin (8003-34-7)

OSHA PEL	ACGIH TLV	HCC WEL
5 mg/m ³ (PEL)	5 mg/m ³ (TWA)	None

----- **9. PHYSICAL and CHEMICAL PROPERTIES** -----

APPEARANCE: Medium to dark amber, slightly viscous liquid.

BASIC PHYSICAL PROPERTIES
PHYSICAL STATE: Liquid
SPECIFIC GRAVITY: 1.00
SOLUBILITY (H₂O): Insoluble
DENSITY: 8.33 lbs/gal @ 20°C

----- **10. STABILITY and REACTIVITY** -----

CHEMICAL STABILITY:
Stable

INCOMPATIBILITY:
Strong oxidizing agents.

HAZARDOUS POLYMERIZATION:
Will not occur

----- **11. TOXICOLOGICAL INFORMATION** -----

EYE EFFECTS
Non-irritating (rabbit)

SKIN EFFECTS
Irritation (rabbit): Slightly irritating
Absorption (rabbit): LD₅₀ > 2,000 mg/kg

ACUTE ORAL EFFECTS
LD₅₀ (rat) > 5,000 mg/kg

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----- **11. TOXICOLOGICAL INFORMATION (Continued)** -----

ACUTE INHALATION EFFECTS

4-Hour LC50 (rat) > 5,000 mg/L
1-Hour equivalent LC50 > 20 mg/L (for DOT purposes)

CHRONIC (CANCER INFORMATION)

In a recent study, marginally higher incidences of benign thyroid, parathyroid, ovary, and liver tumors were observed in rats and in lungs of mice following lifetime high dose exposures to pyrethrum.

Marginally higher incidences of benign liver tumors in mice were observed in mice following lifetime high dose exposures to piperonyl butoxide.

The significance of these observations is questionable and under review. The doses at which tumors were observed for both pyrethrum and piperonyl butoxide greatly exceeded potential human exposure from labeled uses.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

TERATOGENICITY (BIRTH DEFECTS)

There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbit for either pyrethrum or piperonyl butoxide. They are not considered to be teratogenic.

MUTAGENICITY (GENETIC EFFECTS)

Pyrethrum was not found to be genotoxic and did not damage DNA in any study conducted (Ames mutagenicity assay, chromosome aberration in Chinese hamster ovaries (CHO) cells, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

PBO was not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberration in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

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----- **12. ECOLOGICAL INFORMATION** -----

OTHER ENVIRONMENTAL INFORMATION

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

----- **13. DISPOSAL CONSIDERATIONS** -----

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility .

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

----- **14. TRANSPORT INFORMATION** -----

PROPER SHIPPING NAME: Environmentally Hazardous Substance,
Liquid, n.o.s. (Pyrethrins)

HAZARD CLASS: 9, PG III
DOT IDENTIFICATION NUMBER: UN3082
DOT SHIPPING LABEL: Class 9

ADDITIONAL SHIPPING PAPER DESCRIPTION
RQ (Pyrethrins)

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----- **16. OTHER INFORMATION (Continued)** -----

LEGEND: N/A = Not Applicable
N/D = Not Determined
N/L = Not Listed
L = Listed
C = Ceiling
S = Short-term

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