

Material Safety Data Sheet



Transportation and Medical Emergency Phone: 800-535-5053
(INFOTRAC)

General Phone: 317-580-8282

EPA Reg. Number: 67690-1
Effective Date: October 1, 1998

SePRO Corporation • Carmel, IN

Pipron* Liquid Concentrate Fungicide

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product: Pipron* Liquid Concentrate Fungicide

Company:
SePRO Corporation
11550 North Meridian Street, Suite 600
Carmel, IN 46032-4565
www.sepro.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Piperalin: 3-(2-methylpiperidino)propyl-3,4-dichlorobenzoate
CAS # 003478-94-2 84.4%
Proprietary Ingredients, Total, Including..... 15.6%
Aromatic 150 CAS # 064742-94-5
Naphthalene CAS # 000091-20-3

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Combustible liquid. Viscous, reddish-orange liquid with a mild aromatic odor. May cause severe eye irritation with corneal injury. Prolonged or repeated exposure may cause severe skin irritation and drying or flaking of the skin. LD₅₀ for skin absorption in rabbits is >5650 mg/kg. Oral LD₅₀ for rats is between 500 and 5000 mg/kg. The inhalation LC₅₀ for rats is between .50 and 3.83 mg/L for 4 hours.
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POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

EYE: May cause severe eye irritation with corneal injury which may result in permanent impairment of vision, even blindness. Vapors may irritate eyes.

SKIN: Prolonged or repeated exposure may cause severe skin irritation. Repeated contact may cause drying or flaking of the skin. Did not cause allergic skin reactions when tested in guinea pigs. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The LD₅₀ for skin absorption in rabbits is >5650 mg/kg.

INGESTION: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. If aspirated (liquid enters the lung), may cause lung damage or even death due to chemical pneumonia. The oral LD₅₀ for rats is between 500 and 5000 mg/kg.

INHALATION: Mists may cause irritation of upper respiratory tract. Excessive exposure to vapors may cause irritation to the upper respiratory tract and lungs. Signs and symptoms of excessive exposure may be central nervous effects and anesthetic or narcotic effects. The LC₅₀ for rats is between .50 and 3.83 mg/L for 4 hours.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: No significant toxicologic effects were observed in laboratory animals fed piperalin at high dietary concentrations. Cataracts and other eye effects have been reported in humans repeatedly exposed to naphthalene vapors, a component of the solvent in this formulation.

CANCER INFORMATION: No relevant information found.

TERATOLOGY (BIRTH DEFECTS): For piperalin and the solvent: did not cause birth defects in laboratory animal tests; other fetal effects occurred only at doses toxic to the mother.

REPRODUCTIVE EFFECTS: No relevant information found.

4. FIRST AID

EYES: Flush eyes with plenty of water. Seek medical attention if irritation develops.

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SKIN: Wash off in flowing water or shower. Seek medical attention if irritation develops.

INGESTION: If swallowed, do not induce vomiting. Call a physician or poison control center. If available, administer activated charcoal (6-8 heaping teaspoonsful) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

INHALATION: If discomfort occurs, remove individual to fresh air. If breathing difficulty occurs, seek medical attention. If not breathing, provide cardiopulmonary resuscitation and seek medical attention immediately.

NOTE TO PHYSICIAN: This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Aspiration of this product may produce a severe pneumonitis. Stomach lavage with a cuffed endotracheal tube in place and immediate administration of activated charcoal, 6 to 8 heaping teaspoonsful with water should be considered. Treatment is otherwise symptomatic and supportive based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: 160°F (71.1°C)

Method Used: SCC

FLAMMABLE LIMITS: LFL: 0.9 +/- 0.1%
UFL: 1.2 +/- 0.1%

AUTO-IGNITION TEMPERATURE: 563°F (295°C)

EXTINGUISHING MEDIA: Use water, CO₂ or dry chemicals.

FIRE AND EXPLOSION HAZARDS: Classified as a combustible liquid. Closed containers may explode due to pressure build-up when subjected to excessive heat or intense fire.

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Use absorbent material to contain and clean up small spills and dispose as waste. Report large spills to INFOTRAC and consult SePRO Corporation for assistance. Prohibit use of hot or sparking equipment in immediate area. Prevent runoff.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep out of reach of children. Causes substantial but temporary eye irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors and spray mist. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Read the product label for information relative to the end-use of this product and concerning the use of personal protective equipment (PPE) under the Worker Protection Standard of 1993 (see Section 8). Store in original container with the lid tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINES: OSHA PEL and ACGIH TLV for piperalin and Aromatic 150 have not been established. The manufacturer's recommended exposure guideline for Aromatic 150 is 100 ppm total hydrocarbon based on composition. Naphthalene ACGIH TLV and OSHA PEL are 10 ppm TWA, 15 ppm STEL. PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

ENGINEERING CONTROLS: Provide general and or local exhaust ventilation to control airborne levels below the exposure guidelines.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use a NIOSH approved air-

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purifying respirator. In misty atmospheres, use a NIOSH approved respirator for mist.

SKIN PROTECTION: For handling prior to end-use of this product, use protective clothing impervious to this material when prolonged or frequently-repeated contact could occur. Selection of specific items such as faceshield, gloves, boots, apron, or full body suit will depend on operation. For handling relative to the end-use of this product, the Worker Protection Standard of 1993 requires that applicators and other handlers must wear coveralls over a long-sleeved shirt and long pants; chemical resistant gloves such as Barrier Laminate, Nitrile Rubber, Butyl Rubber, or Viton; chemical resistant footwear and socks; and chemical resistant headgear for overhead exposure. Chemical resistant apron must be worn when cleaning equipment, mixing, or loading. Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing. Users should remove personal protective equipment (PPE) immediately after handling the product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and put on clean clothing. Discard clothing and other absorbent materials that may have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

EYE PROTECTION: Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face NIOSH approved respirator. Applicators and other end-use handlers must wear protective eyewear.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: (@ 1 atmosphere) 280.4°F (138°C)
SOLUBILITY IN WATER: Emulsifies in water
VAPOR PRESSURE: Approximately 3 mmHg @ 25°C
SPECIFIC GRAVITY: 1.130 @ 20°C
APPEARANCE: Viscous, reddish-orange liquid
VAPOR DENSITY: 4.8 relative to air @ 25°C
ODOR: Mild aromatic
pH: (aqueous 50/50) 8.50

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Do not store near heat or flame.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Avoid freezing.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride and oxides of nitrogen may form if product is involved in a fire.

HAZARDOUS POLYMERIZATION: Does not occur.

11. TOXICOLOGICAL INFORMATION

MUTAGENICITY: In-vitro mutagenicity studies on the components were negative. For piperalin, laboratory animal mutagenicity studies were negative.

12. ENVIRONMENTAL INFORMATION

Do not apply directly to water or wetlands. Do not contaminate water, food or feed by storage or disposal. Do not contaminate water when disposing of equipment wash water.

13. DISPOSAL CONSIDERATIONS

Disposal: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed on site per label use directions or at an approved waste disposal facility. Follow all local, state, and federal requirements for disposal.

14. TRANSPORTATION INFORMATION

For DOT regulatory information, if required, consult transportation regulations, product shipping papers, or your SePRO Corporation representative.

15. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective data shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another, it is the user's responsibility to ensure that its activities comply with federal, state, and local laws. The following specific information is made for the purpose of complying

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with numerous federal, state, and local laws and regulations.

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 732:

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Nominal Concentration</u> |
|----------------------|-------------------|------------------------------|
| Naphthalene | 000091-20-3 | 1% |

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A delayed health hazard
- A fire hazard

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704): (4=Extreme; 3 = High; 2=Moderate; 1=Slight; 0=Insignificant)

Health: 2
Flammability: 2
Reactivity: 0

STATE RIGHT-TO-KNOW: This following product components are cited on certain state lists as mentioned. Non-listed components may be shown in Section 1 of the MSDS.

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>List</u> |
|----------------------|-------------------|--------------------|
| Naphthalene | 000091-20-3 | NJ2, NJ3, PA1, PA3 |

NJ2=New Jersey Environmental Hazardous Substance (present at \geq to 1.0%)
NJ3=New Jersey Workplace Hazardous Substance (present at \geq to 1.0%)
PA1=Pennsylvania Hazardous Substance (present at \geq to 1.0%)

PA3=Pennsylvania Environmental Hazardous Substance (present at \geq to 1.0%)

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

OSHA HAZARD COMMUNICATION STANDARD: This product is a 'Hazardous Chemical' as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, OR SUPERFUND): This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of released:

| <u>Chemical Name</u> | <u>CAS #</u> | <u>RQ</u> | <u>% in Product</u> |
|----------------------|--------------|-----------|---------------------|
| Naphthalene | 000091-20-3 | 100 | 1% |

RCRA CATEGORIZATION: US EPA Hazardous Waste Number for Naphthalene = U165

16. OTHER INFORMATION

MSDS Status:
Revised to ANSI Standard 16 Section MSDS
Updated all sections
Replaces MSDS dated: August 25, 1994

The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult SePRO Corporation For Further Information.

Form # H-22-MC-02(02)