

NATURAL PYRETHRIN CONCENTRATE
MATERIAL SAFETY DATA SHEET

Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc.
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I NOMENCLATURE

Product Name: NATURAL PYRETHRIN CONCENTRATE EPA Reg. No. 655-587-829
Chemical Name: Pyrethrum

II INGREDIENTS

Pyrethrum	CAS No. 8003-34-7 (< >)	0.96%	OSHA (TWA) 5 mg/m ³
Piperonyl Butoxide Tech.	CAS No. 51-03-6	9.60%	(TWA) (N/D)
Petroleum Solvent	CAS No. 64742-47-8	81.44%	(TWA) 300 ppm (supplier recommendation)
Emulsifier	CAS No. (supplier claims as confidential)	8.0 %	(TWA) (N/D)

This product contains a toxic chemical or chemicals (< >) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372. Any copies or redistribution of this MSDS must include this notice.

III PHYSICAL PROPERTIES

Boiling Point: N/D	Specific Gravity (H ₂ O=1): 0.8250	Melting Point: N/D
Vapor Pressure: (mmHg) N/D	Evaporation Rate: (Butyl Acetate = 1): N/D	
Vapor Density: (air=1) N/D	Solubility In Water: Emulsifies	
Appearance/Odor: Yellow to amber liquid, pleasant woody odor.		

IV FIRE AND EXPLOSION DATA

Flash Point (method used): 152°F (closed cup) Flammable Limits: Lel 0.6 Uel 7.0 (solvent)

NFPA Hazard Ratings: Health: 1 Flammability: 2 Reactivity: 0

Extinguishing Media: Foam, CO₂, Dry Chemical, or Sand.

Special Fire Fighting Procedures: Do not inhale vapor. Use self contained breathing apparatus and protective clothing. This product is toxic to fish, birds and other wildlife, prevent spread of contaminated runoff.

Unusual Fire & Explosion Hazards: Combustible liquid. Keep containers cool to avoid explosive ignition.

V Reactivity Data

Stability: Stable.	Conditions to avoid for stability: None.
Incompatibility: Strong acids and alkalis.	Hazardous Decomposition or Byproducts: None.
Hazardous Polymerization: Will not occur.	Conditions to avoid for Hazardous Polymerization: None.

VI Health Hazard Data

Routes of Exposure: Inhalation: Yes. Skin: Yes. Ingestion: Yes.

Health Hazards (Acute and Chronic): Acute exposure may lead to irritation of eyes and mucosa and nervous system symptoms.

Chronic effects: At high oral doses, the type of solvent in this product has caused irreversible damage to the liver and kidney (male only) in rats. These effects are not relevant to humans at occupational levels of exposure.

Carcinogenicity: NTP: No. IARC Monographs: No. OSHA Regulated: No.

Signs and Symptoms of Overexposure: Irritation of eyes and mucosa, hyperexcitability, uncoordination, diarrhea, chronic convulsions. If symptoms occur, see a physician.

Medical Conditions Generally Aggravated by Exposure: None known.

Emergency and First Aid Procedures: If swallowed, Call a physician or Poison Control Center immediately. Do not induce vomiting. Vomiting may cause aspiration pneumonia. If inhaled, remove victim to fresh air. If on skin, remove contaminated clothing and wash affected areas with soap and water. If in eyes, flush eyes with plenty of water. Call a physician immediately if irritation persists.

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VII Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Take care to avoid contact with pesticide and wear protective equipment to prevent contact with the product or its vapors. Cover the spilled area with generous amounts of absorbent material, such as clay, diatomaceous earth, sand or sawdust. Sweep the contaminated absorbent onto a shovel and put the sweepings into a salvage drum. Dispose of wastes as below.

Waste disposal method: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. This product is toxic to fish, birds and other wildlife. Do not contaminate the environment through improper disposal.

Precautions for handling and storage: Do not use or store near heat or open flame. Exposure to temperatures above 130° F. may cause bursting. Keep out of reach of children, domestic animals and pets. Do not contaminate water, food or feed by storage or disposal.

Other precautions: Periodically inspect stored materials.

VIII Control Measures

Respiratory protection: Not usually required. Avoid inhalation of vapors.

Ventilation: Local Exhaust: As required to meet exposure guidelines. Special: Not applicable.

Mechanical: As required to meet exposure guidelines. Other: Not applicable.

Protective Gloves: Chemical resistant.

Eye Protection: Face shield, safety glasses or goggles.

Other protective clothing or equipment: Wear long pants, long sleeved shirt or other body covering clothes. Avoid skin or eye contact.

Work/Hygienic practices: Wash thoroughly after handling and before eating. Do not wear contaminated clothing.

The information given in this safety sheet refers only to this product and is not applicable to combinations with other chemicals.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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