

**Syngenta Crop Protection, Inc.**  
**Post Office Box 18300**  
**Greensboro, NC 27419**

**In Case of Emergency, Call**  
**1-800-888-8372**

## 1. PRODUCT IDENTIFICATION

Product Name:	<b>PIRIMOR 50-DF</b>	Product No.:	A10788A
EPA Signal Word:	Warning		
Active Ingredient(%):	Pirimicarb Technical (50%)	CAS No.:	23103-98-2
Chemical Name:	2-(dimethylamino)-5,6-dimethyl-4-pyrimidinyl		
Chemical Class:	A carbamate insecticide		
EPA Registration Number(s):	100-1073	Section(s) Revised:	<b>2</b>

## 2. HAZARDS IDENTIFICATION

### Health and Environmental

May form flammable dust-air mixture.

Toxic if swallowed. Harmful if inhaled. May be harmful in contact with skin. Causes eye and skin irritation.

This product is a cholinesterase inhibitor. Principal routes of exposure are skin contact and inhalation. Symptoms of cholinesterase inhibition may include salivation, sweating, headache, nausea, muscle twitching, tremors, poor coordination, blurred vision, tears, abdominal cramps, diarrhea and chest discomfort.

### Hazardous Decomposition Products

None known.

### Physical Properties

Appearance: Blue green to green granules

Odor: Odorless

### Unusual Fire, Explosion and Reactivity Hazards

This product will burn with flames if ignited.

Fine particles of this product may form flammable dust-air mixtures. Use appropriate controls to prevent ignition.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Talc	20 mppcf (containing <1% quartz) TWA	2 mg/m <sup>3</sup> (respirable; <1% crystalline silica) TWA	2 mg/m <sup>3</sup> (respirable; <1% quartz) TWA	IARC Group 3
Pirimicarb Technical (50%)	Not Established	Not Established	1 mg/m <sup>3</sup> TWA ***	No
** recommended by NIOSH				
*** Syngenta Occupational Exposure Limit (OEL)				

#### 4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

- Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation: If inhaled: 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

##### Notes to Physician

This product is a cholinesterase inhibitor. If cholinesterase inhibition is suspected, atropine by injection is antidotal. Pralidoxime chloride (2-PAM, Protopam) has shown utility as an adjunctive therapy. Never use morphine. Continued absorption of the poison may occur resulting in fatal relapse after initial improvement. Very close supervision of the patient is indicated for 48-72 hours.

##### Medical Condition Likely to be Aggravated by Exposure

None known.

#### 5. FIRE FIGHTING MEASURES

##### Fire and Explosion

Flash Point (Test Method):	Not Applicable	
Flammable Limits (% in Air):	Lower: Not Applicable	Upper: Not Applicable
Autoignition Temperature:	Not Available	
Flammability:	Not Applicable	

##### Unusual Fire, Explosion and Reactivity Hazards

This product will burn with flames if ignited.

Fine particles of this product may form flammable dust-air mixtures. Use appropriate controls to prevent ignition.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

##### In Case of Fire

Use dry chemical, foam or CO<sub>2</sub> extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

#### 6. ACCIDENTAL RELEASE MEASURES

##### In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

## 7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Ingestion:	Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
Eye Contact:	Where eye contact is likely, use dust-proof chemical goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Skin Contact:	Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.
Inhalation:	A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue green to green granules
Odor:	Odorless
Melting Point:	189 °F
Boiling Point:	Not Applicable
Specific Gravity/Density:	0.4 - 0.6 g/cm <sup>3</sup>
pH:	6 - 10 (1% in deionized water)
Solubility in H <sub>2</sub> O	
Pirimicarb Technical:	3g/l @ 68°F (20°C)
Vapor Pressure	
Pirimicarb Technical:	7.3 x 10 <sup>(-6)</sup> mmHg @ 77°F (25°C)

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.
Materials to Avoid:	Oxidizing agents.
Hazardous Decomposition Products:	None known.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion:	Oral (LD50 Male Rat) :	87 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 2000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	1.41 mg/l air - 4 hours
Eye Contact:	Moderately Irritating (Rabbit)	

Skin Contact: Slightly Irritating (Rabbit)  
Skin Sensitization: Not a Sensitizer (Guinea Pig)

#### Reproductive/Developmental Effects

Pirimicarb Technical: A 2-generation reproduction study showed no evidence for fertility or reproduction effects at doses below those causing maternal toxicity. The reproductive NOEL was at least 750 ppm (approx. 88 mg/kg/day).

#### Chronic/Subchronic Toxicity Studies

Pirimicarb Technical: Overall NOEL for subchronic toxicity studies in the rat is 175 ppm (approx. 17.5 mg/kg/day) based on a decrease in body weight gain. NOEL for chronic studies in the dog is 3.5 mg/kg/day based on hematological changes.

#### Carcinogenicity

Pirimicarb Technical: An acute neurotoxicity study in the rat produced reversible signs of neurotoxicity at a single dose of 110 mg/kg. The NOEL was 40 mg/kg. In a 90-day study, reduced growth and food consumption were observed at 250 and 1000 ppm, but no neurological effects were noted. No evidence of carcinogenicity in rat studies at doses up to 2500 ppm (approx. 125 mg/kg/day). A small increase in the incidence of benign lung adenomas was seen in female mice at a maximally tolerated dose level. From these studies it was concluded that pirimicarb does not pose a carcinogenic risk to humans.

#### Other Toxicity Information

This product is a cholinesterase inhibitor. Principal routes of exposure are skin absorption and inhalation. Severe cases of cholinesterase inhibition may lead to convulsions, pulmonary edema, respiratory failure and death.

#### Toxicity of Other Components

##### Talc

Limited potential for respiratory disease.

#### Target Organs

##### Active Ingredients

Pirimicarb Technical: CNS, blood system

##### Inert Ingredients

Talc: Respiratory tract

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity Effects

##### Pirimicarb Technical:

Fish (Rainbow Trout) 96-hour LC50 29 ppm

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.0065 ppm

Bird (Mallard Duck) 14-day LD50 17.2 mg/kg

#### Environmental Fate

##### Pirimicarb Technical:

The information presented here is for the active ingredient, pirimicarb.

Does not bioaccumulate. Not persistent in soil. Low mobility in soil. Sinks in water (after 24 h).

## 13. DISPOSAL CONSIDERATIONS

#### Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

## 14. TRANSPORT INFORMATION

### DOT Classification

Ground Transport - NAFTA

Proper Shipping Name: Carbamate Pesticides, Solid, Toxic, N.O.S. (Pirimicarb)

Hazard Class or Division: Class 6.1

Identification Number: UN 2757

Packing Group: PG III

### B/L Freight Classification

Insecticides, NOI, Poison

### Comments

Water Transport - International

Proper Shipping Name: Carbamate Pesticides, Solid, Toxic, N.O.S. (Pirimicarb)

Hazard Class or Division: Class 6.1

Identification Number: UN 2757

Packing Group: PG III

## 15. REGULATORY INFORMATION

### EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard  
Chronic Health Hazard

Section 313 Toxic Chemicals: Not Applicable

### California Proposition 65

Not Applicable

### CERCLA/SARA 302 Reportable Quantity (RQ)

None

### RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

### TSCA Status

Exempt from TSCA, subject to FIFRA

## 16. OTHER INFORMATION

### NFPA Hazard Ratings

Health: 2  
Flammability: 1  
Instability: 0

### HMIS Hazard Ratings

Health: 2  
Flammability: 1  
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 3/20/1997

Revision Date: 10/28/2009

Replaces: 2/6/2008

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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