

## PIRIMOR® 50-DF Insecticide

Date: 7/21/2014  
Replaces: 6/26/2014

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **PIRIMOR® 50-DF Insecticide**

Product No.: A10788A

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

**Emergency Phone: 1-800-888-8372**

### 2. HAZARDS IDENTIFICATION

Classifications: Inhalation: Category 4  
Eye Damage/Irritation: Category 2A  
Carcinogenicity: Category 1A  
Specific Target Organ Toxicity: Repeated Category 1  
Oral: Category 2

Signal Word (OSHA): Danger

Hazard Statements: Fatal if swallowed  
Causes serious eye irritation  
Harmful if inhaled  
May cause cancer  
Causes damage to organs through prolonged or repeated exposure

Hazard Symbols:



Precautionary Statements: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wash hands and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing, eye protection.  
If swallowed: Immediately call a poison center, doctor or Syngenta. Rinse mouth.  
See Section 4 First Aid Measures.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice.

Call a poison center, doctor or Syngenta if you feel unwell.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: This product is a cholinesterase inhibitor.  
May form combustible dust concentrations in air.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Common Name	CAS Number	Concentration
Crystalline Silica, Quartz and Cristobalite	Crystalline Silica, Quartz and Cristobalite	14808-60-7	Trade Secret
Talc	Talc	14807-96-6	Trade Secret
Other ingredients	Other ingredients	Trade Secret	50.0%
2-(dimethylamino)-5,6-dimethyl-4-pyrimidinyl	Pirimicarb Technical	23103-98-2	50.0%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

**4. FIRST AID MEASURES**

Have the product container, label or 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.

Most important symptoms/effects:

Eye irritation

Indication of immediate medical attention and special treatment needed:

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.

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### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

Fire will spread by burning with flame.

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

See also Sec. 7.

Special protective equipment and precautions for firefighters:

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.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Avoid dust formation.

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

Precautions for safe handling:

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

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.

Conditions for safe storage, including any incompatibilities:

Store locked up.

### 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.**

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Crystalline Silica, Quartz and	10 mg/m <sup>3</sup> /(%SiO <sub>2</sub> +2)	0.025 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	NIOSH

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Cristobalite	(respirable dust)	(respirable silica)	(respirable dust)	
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	NIOSH
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Pirimicarb Technical	Not Established	Not Established	1 mg/m <sup>3</sup> TWA	Syngenta

### Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

### Individual protection measures:

#### 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

Odor Threshold: Not Available

pH: 6 - 10 (1% in deionized water)

Melting point/freezing point: 189 °F

Initial boiling point and boiling range: Not Applicable

Flash Point (Test Method): Not Applicable

Flammable Limits (% in Air): Not Available

Flammability: Not Applicable

Vapor Pressure: Pirimicarb Technical 7.3 x 10<sup>-6</sup> mmHg @ 77°F (25°C)

Vapor Density: Not Available

Relative Density: 0.4 - 0.6 g/cm<sup>3</sup>

Solubility (ies): Pirimicarb Technical 3 g/l @ 68°F (20°C)

Partition coefficient: n-octanol/water: Not Available

Autoignition Temperature: Not Available

Decomposition Temperature: Not Available

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Viscosity: Not Available

Other: Not Available

### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: None known.

Incompatible materials: None known.

Hazardous Decomposition Products: None known.

### 11. TOXICOLOGICAL INFORMATION

#### Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Eye irritation, Lack of coordination, tremors, dilated pupils.

Delayed, immediate and chronic effects of exposure: Eye irritation, Central and peripheral nervous system damage.

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 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

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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.

Chemical Name	NTP/IARC/OSHA Carcinogen
Crystalline Silica, Quartz and Cristobalite	IARC 1; ACGIH A2
Talc	IARC Group 3
Other ingredients	No
2-(dimethylamino)-5,6-dimethyl-4-pyrimidinyl	No

### 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

#### Crystalline Silica, Quartz and Cristobalite

Chronic inhalation exposure to crystalline silica is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.

#### Other ingredients

Not Applicable

#### Talc

Limited potential for respiratory disease.

### Target Organs

#### Active Ingredients

Pirimicarb Technical: CNS, blood system

#### Inert Ingredients

Crystalline Silica, Quartz and Cristobalite: Respiratory tract

Other ingredients: Not Applicable

Talc: Respiratory tract

## 12. ECOLOGICAL INFORMATION

### Eco-Acute Toxicity

#### 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).

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### 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

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### 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

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

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### 15. REGULATORY INFORMATION

Pesticide Registration:

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:

Warning: May be fatal if swallowed. Wash thoroughly with soap and water after handling and before eating drinking, or using tobacco. May be fatal if absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, faceshield, or safety glasses), clothing and gloves. Remove contaminated clothing and wash clothing before reuse. Harmful if inhaled. Avoid breathing dust. Causes substantial but temporary eye injury. Causes skin irritation.

EPA Registration Number(s):

100-1073

EPCRA SARA Title III Classification:

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

Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):

None

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

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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
*	Chronic

Syngenta Hazard Category: C,S

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 3/20/1997  
Revision Date: 7/21/2014 Replaces: 6/26/2014  
Section(s) Revised: 2, 3

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.