

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

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

## 1. PRODUCT IDENTIFICATION

|                             |                                                                                                        |                     |            |
|-----------------------------|--------------------------------------------------------------------------------------------------------|---------------------|------------|
| Product Name:               | <b>DEMON WP</b>                                                                                        | Product No.:        | A12839A    |
| EPA Signal Word:            | Warning                                                                                                |                     |            |
| Active Ingredient(%):       | Cypermethrin (40.0%)                                                                                   | CAS No.:            | 52315-07-8 |
| Chemical Name:              | a-cyano-(3-phenoxyphenyl)methyl-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate |                     |            |
| Chemical Class:             | A pyrethroid insecticide                                                                               |                     |            |
| EPA Registration Number(s): | 100-990; 100-1000                                                                                      | Section(s) Revised: | 9, 11      |

## 2. HAZARDS IDENTIFICATION

### Health and Environmental

Harmful if swallowed or inhaled. Causes eye irritation. May cause an allergic skin reaction.  
 May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

May form flammable dust-air mixture.

### Hazardous Decomposition Products

None known.

### Physical Properties

Appearance: White powder  
 Odor: Slightly aromatic

### Unusual Fire, Explosion and Reactivity Hazards

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

See also Sec. 7.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Material             | OSHA<br>PEL                                                               | ACGIH<br>TLV                             | Other                                                                           | NTP/IARC/OSHA<br>Carcinogen |
|----------------------|---------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------|-----------------------------|
| Amorphous Silica     | 80 mg/m <sup>3</sup> /SiO <sub>2</sub> TWA<br>(total dust)                | Not Established                          | Not Established                                                                 | IARC Group 3                |
| Calcium Silicate     | 15 mg/m <sup>3</sup> TWA (total); 5<br>mg/m <sup>3</sup> TWA (respirable) | 10 mg/m <sup>3</sup> TWA<br>(irritation) | 10 mg/m <sup>3</sup> TWA<br>(total); 5 mg/m <sup>3</sup><br>TWA (respirable) ** | No                          |
| Cypermethrin (40.0%) | Not Established                                                           | Not Established                          | 0.5 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 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

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.

##### 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:                | Combustible powder    |                       |

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

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

See also Sec. 7.

##### In Case of Fire

Use appropriate extinguishing media for combustibles in the area. 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

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.

In general personnel handling this material and all conducting equipment should be electrically earthed or grounded. Bulk bags (FIBC) used to contain this material should be Type B, Type C or Type D. Type C bags must be electrically grounded or earthed before powder is charged to or discharged from the bag. If metal or fiber drums are used to contain this material, make certain the metal parts are bonded to the filling equipment and grounded.

This material would not normally become readily charged.

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.  
Stringent housekeeping measures are necessary to prevent translocation of the material from contaminated work surfaces to uncontaminated surfaces (railings, doors, etc.). Unprotected contact with such translocated material can result in paresthesia effects (see Section 11).
- Inhalation: Avoid breathing air from drum headspace. Hydrogen cyanide gas may be released during opening and dispensing, and in case of spills. Use local exhaust ventilation or air-supplied respiratory protection to keep exposures below the TLV Ceiling Limit.

A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with any HE filter.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| Appearance:                         | White powder                                                                                 |
| Odor:                               | Slightly aromatic                                                                            |
| Melting Point:                      | Not Available                                                                                |
| Boiling Point:                      | Not Applicable                                                                               |
| Specific Gravity/Density:           | Loose bulk density: 17-23 lb/ft <sup>3</sup> ; Packed bulk density: 25-30 lb/ft <sup>3</sup> |
| pH:                                 | 8.9 (1% solution in deionized H <sub>2</sub> O @ 77°F [25°C])                                |
| <u>Solubility in H<sub>2</sub>O</u> |                                                                                              |
| Cypermethrin:                       | 0.004 mg/l (pH 7)                                                                            |

**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 Rat) :                         | 1800 mg/kg body weight                    |
| Dermal:             | Dermal (LD50 Rat) :                       | 2000 mg/kg body weight                    |
| Inhalation:         | Inhalation (LC50 Rat) :                   | See "Other Toxicity Information", Sec. 11 |
| Eye Contact:        | Moderately Irritating (Rabbit)            |                                           |
| Skin Contact:       | See "Other Toxicity Information", Sec. 11 |                                           |
| Skin Sensitization: | A skin sensitizer in animal tests.        |                                           |

Reproductive/Developmental Effects

Cypermethrin: There were no cypermethrin-induced effects in fertility in two separate two-litter three (filial) generation studies in the rat.

Chronic/Subchronic Toxicity Studies

Cypermethrin: NOEL (2-yr) for dogs 5 mg/kg, rats 7.5 mg/kg.

Nervous system effects typical of pyrethroids (motor incoordination, gait abnormalities) in a range of repeated dose studies (dog and rat). Possible nerve fiber degeneration in 14-day study in rats.

Carcinogenicity

Cypermethrin: Two separate 2-year feeding studies in the rat revealed no evidence of carcinogenicity that could be attributable to cypermethrin.

Other Toxicity Information

In humans, contact with exposed skin may result in temporary itching, tingling, burning or numbness, called paresthesia. The effect may result from splash, aerosol, or hot vapor contact, or transfer to the face from contaminated gloves and hands. The symptoms normally disappear within 24 hours. Face and genital areas are especially susceptible to this effect. Paresthesia involving the face is also known as "subjective facial sensation" or SFS.

No toxic effects are known to be associated with inhalation of dust from this material.

Skin irritation will probably develop following repeated and/or prolonged contact with human skin.

Toxicity of Other ComponentsAmorphous Silica

Amorphous Silica is listed as an IARC (Group 3) carcinogen not classifiable as a human carcinogen (No Data Available) with limited animal evidence. Prolonged exposure to amorphous silica may cause damage to respiratory system and irritation to skin and eyes.

Calcium Silicate

May cause skin or eye irritation upon prolonged or repeated contact.

Target Organs

#### Active Ingredients

Cypermethrin: CNS, eye, liver, skin

#### Inert Ingredients

Amorphous Silica: Respiratory tract, skin, eye

Calcium Silicate: Skin, eye

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity Effects

Cypermethrin:

Fish (Rainbow Trout) 96-hour LC50 0.92 ppb

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 1.0 ppb

Bird (Mallard Duck) 21-day LD50 > 10248 mg/kg

#### Environmental Fate

Cypermethrin:

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

Not persistent in soil or water. Immobile 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

Not regulated.

#### Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Cypermethrin), Marine Pollutant

Hazard Class: Class 9

Identification Number: UN 3077

Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Cypermethrin)

Hazard Class: Class 9

Identification Number: UN 3077

Packing Group: PG III

## 15. REGULATORY INFORMATION

#### EPCRA SARA Title III Classification

Section 313 Toxic Chemicals: Not Applicable

This product does not contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## None

Not Applicable

Exempt from TSCA, subject to FIFRA

| <u>NFPA Hazard Ratings</u> |   | <u>HMIS Hazard Ratings</u> |   |   |          |
|----------------------------|---|----------------------------|---|---|----------|
| Health:                    | 2 | Health:                    | 2 | 0 | Minimal  |
| Flammability:              | 2 | Flammability:              | 2 | 1 | Slight   |
| Instability:               | 0 | Reactivity:                | 0 | 2 | Moderate |
|                            |   |                            |   | 3 | Serious  |
|                            |   |                            |   | 4 | Extreme  |

1-800-334-9481

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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.

End of MSDS