

**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: **DEMON TC** Product No.: A7134C  
 EPA Signal Word: Warning  
 Active Ingredient(%): Cypermethrin Technical (25.3%) 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): 100-1006 **Section(s) Revised: All sections**

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Petroleum Solvent	Not Established	Not Established	100 mg/m <sup>3</sup> (19 ppm)*	No
Xylene	100 ppm TWA	100 ppm TWA; 150 ppm STEL	Not Established	IARC, 3
Cumene	50 ppm TWA (Skin)	50 ppm TWA	Not Established	No
1,2,4-Trimethylbenzene	25 ppm TWA	25 ppm TWA	Not Established	No
Petroleum Solvent	Not Established	Not Established	Not Established	No
Propylene Glycol	Not Established	Not Established	50 ppm TWA AIHA WEEL	No
Naphthalene	10 ppm	10 ppm (STEL= 15 ppm)	Not Established	No
Cypermethrin Technical (25.3%)	Not Established	Not Established	0.5 mg/m <sup>3</sup> TWA ***	No

\* recommended by manufacturer

\*\*\* Syngenta Occupational Exposure Standard (OES)

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

**3. HAZARDS IDENTIFICATION**
Symptoms of Acute Exposure

Harmful if inhaled or swallowed. Dust, mist or vapor irritating to eyes and respiratory tract. May cause skin irritation. May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases.

Physical Properties

Appearance: Dark brown viscous liquid

Odor: Slight hydrocarbon

Unusual Fire, Explosion and Reactivity Hazards

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

## 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. Do not give any liquid to the person. 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.

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

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

### Medical Condition Likely to be Aggravated by Exposure

None known.

## 5. FIRE FIGHTING MEASURES

### Fire and Explosion

- Flash Point (Test Method): 160°F
- Flammable Limits (% in Air): Lower: % Not Applicable; Upper: % Not Applicable
- Autoignition Temperature: Not Available
- Flammability: Combustible Liquid

### Unusual Fire, Explosion and Reactivity Hazards

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 it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. If a solid, sweep up material and place in a compatible disposal container. If a liquid, cover entire spill with absorbing material and place into 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 THE PRODUCT.

FOR COMMERCIAL APPLICATIONS AND 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 chemical splash 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 (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear. 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:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown viscous liquid
Odor:	Slight hydrocarbon
Melting Point:	Not Applicable
Boiling Point:	Not Available
Specific Gravity/Density:	0.98 g/mL @ 77°F (25°C)
pH:	4.81% w/v @ 68° F (20° C)

### Solubility in H<sub>2</sub>O

Cypermethrin Technical: 0.004 mg/L (pH 7)

### Vapor Pressure

Cypermethrin Technical: 4 mm Hg @ 68°F (20°C)

## 10. STABILITY AND REACTIVITY

Stability:	Stable under standard conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Can decompose at high temperatures forming toxic gases.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies (Finished Product)

Ingestion:	<u>Moderately Toxic</u>	
	Oral (LD50 Rat) :	= 173 mg/kg body weight
Dermal:	<u>Slightly Toxic</u>	
	Dermal (LD50 Rat) :	> 2,000 mg/kg body weight
Inhalation:	<u>Slightly Toxic</u>	
	Inhalation (LC50 Rat) :	> 0.764 mg/l air - 4 hours
Eye Contact:	Severely Irritating (Rabbit)	
Skin Contact:	Moderately Irritating (Rabbit)	
Skin Sensitization:		

A weak skin sensitizer.

#### Neurotoxicity

Cypermethrin Technical: 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.

#### Reproductive Effects

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

#### Carcinogenicity

Cypermethrin Technical: 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.

#### Toxicity of Other Components

##### Petroleum Solvent

The supplier reports that high vapor/aerosol concentrations (> 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects.

##### Petroleum Solvent

Causes eye and skin irritation. May be harmful if swallowed.

#### Target Organs

##### Active Ingredients

Cypermethrin Technical: CNS, eye, liver, skin

##### Inert Ingredients

Petroleum Solvent: Eye, respiratory tract, CNS

Petroleum Solvent: Eye, skin

## **12. ECOLOGICAL INFORMATION**

#### Summary of Effects

Cypermethrin Technical:

This material is extremely toxic to fish and other aquatic organisms.

#### Eco-Acute Toxicity

Cypermethrin Technical: Rainbow Trout 96-hour LC50 0.92 ug/L  
Daphnia magna 48 hours EC50 1.25 ug/L

#### Eco-Chronic Toxicity

Cypermethrin Technical: Not Available

#### Environmental Fate

Cypermethrin Technical:

No data available for the formulation. The information presented here is for the active ingredient, cypermethrin. A thorough review of environmental information is not possible in this document. For additional information call the toll free number listed in Section 16.

Soil/Environment: In soil, typical DT50 60 d (fine sandy loam); hydrolysis with cleavage of the ester bond occurs and also further hydrolytic and oxidative degradation. Field dissipation is much faster. In river water, rapid degradation occurs, DT50 c. 5 d.

### 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

Surface Transportation: Pesticides, liquid, toxic, n.o.s. (contains cypermethrin), 6.1, UN2902, PGIII

#### B/L Freight Classification

Insecticides, n.o.s. poison

#### Comments

Pyrethroid pesticides, liquid, toxic, (lambda-cyhalothrin), 6.1, UN 3352, PGIII

### 15. REGULATORY INFORMATION

#### EPCRA SARA Title III Classification

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

Section 313 Toxic Chemicals: 1,2,4-Trimethylbenzene (CAS No. 95-63-6)  
Cumene (CAS No. 98-82-8)  
Xylene (CAS No. 1330-20-7)  
Naphthalene (CAS No. 91-20-3)

#### California Proposition 65

Not Applicable

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

50,000 lbs (based on xylene, CAS #1330-20-7 [RQ = 100 lbs] in the formulation)

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

Not Applicable

#### TSCA Status

Exempt from TSCA, subject to FIFRA

### 16. OTHER INFORMATION

#### NFPA Hazard Ratings

Health: 3  
Flammability: 2  
Instability: 0

#### HMIS Hazard Ratings

Health: 3  
Flammability: 2  
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: 09/19/2000

Revision Date: 11/19/2001

Replaces:

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.

RSVP# : SCP-955-00321A

End of MSDS