

# **TANDEM®** Insecticide

Date:

2/28/2017

Replaces:

8/31/2015

### 1. PRODUCT IDENTIFICATION

Product identifier on label: TANDEM® Insecticide

Product No.:

A18484C

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:

Oral: Category 4

Signal Word (OSHA):

Warning

Hazard Statements:

Harmful if swallowed

Hazard Symbols:



**Precautionary Statements:** 

Wash hands and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

If swallowed: Call a poison center, doctor or Syngenta if you feel unwell. Rinse mouth.

Dispose of contents and container in accordance with local regulations.

Other Hazard Statements:

May cause temporary itching, tingling, burning or numbness of exposed

skin, called paresthesia.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
1,2-Propanediol	Propylene Glycol	57-55-6	<10.0%
Other ingredients	Other ingredients	Trade Secret	>74.9%
[1a(S*),3a(Z)]-cyano(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate	Lambda-Cyhalothrin	91465-08-6	3.5%



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#### 7. HANDLING AND STORAGE

Precautions for safe handling:

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:

Not Applicable

#### 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
Propylene Glycol	Not Established	Not Established	10 mg/m³ TWA	AIHA
Other ingredients	Not Established	Not Established	Not Established	Not Applicable
Lambda-Cyhalothrin	Not Established	Not Established	0.04 mg/m³ TWA (skin)	Syngenta
Thiamethoxam	Not Established	Not Established	3 mg/m³ TWA	Manufacturer

## 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 splash-proof chemical goggles.

### 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 of MSDS). Do not touch unprotected skin areas (face) with contaminated gloves or clothing.

#### 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 certified respirator with any N, R, P or HE filter.



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substantially similar formulation)

Dermal:

Dermal (LD50 Rat):

> 5000 mg/kg body weight (based on a

substantially similar formulation)

Inhalation:

Inhalation (LC50 Rat):

> 2.52 mg/l air - 4 hours (based on a

substantially similar formulation)

Eye Contact:

Minimally Irritating (Rabbit) (based on a substantially similar formulation)

Skin Contact:

Slightly Irritating (Rabbit) (based on a substantially similar formulation)

Skin Sensitization:

Not a Sensitizer (Guinea Pig) (based on a substantially similar formulation)

#### Reproductive/Developmental Effects

Lambda-Cyhalothrin: Not a developmental or reproductive toxicant.

Thiamethoxam: Developmental: Not teratogenic in rats or rabbits.

Reproductive: No effects on reproduction. Minor increase in a common testis effect in rats at high doses, which did not

affect reproduction.

## Chronic/Subchronic Toxicity Studies

Lambda-Cyhalothrin: Reversible paresthesia (abnormal skin sensation).

Reversible clinical signs of neurotoxicity in mammals.

Thiamethoxam: Subchronic: Liver effects occurred in rodents only at high dose levels. Not neurotoxic after high acute

and subchronic exposure in rats.

### Carcinogenicity

Lambda-Cyhalothrin: No treatment-related tumors in rats or mice.

Thiamethoxam: Classified as "not likely to be carcinogenic in humans" based on lifetime studies in mice and rats.

Chemical Name NTP/IARC/OSHA Carcinogen 1,2-Propanediol No Other ingredients No [1a(S\*),3a(Z)]-cyano(3-phenoxyphenyl)methyl- No

3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-

dimethylcyclopropanecarboxylate

3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-

No

1,3,5-oxadiazinan-4-ylidene(nitro)amine

#### 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**

Other ingredients

Not Established

#### Propylene Glycol

Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.



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Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-Cyhalothrin)

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

#### 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:

Caution: Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapors. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

EPA Registration Number(s):

100-1437

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes:

Acute Health Hazard

Chronic Health Hazard

Section 313 Toxic Chemicals:

None

California Proposition 65:

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

CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:

Exempt from TSCA, subject to FIFRA

## 16. OTHER INFORMATION

NFPA Hazard Ratings HMIS Hazard Ratings

Health: 2 Health: Flammability: 1 Flammability:

Instability: 0 Physical Hazard:

Health: 2 1 Slight
Flammability: 1 2 Moderate
Physical Hazard: 0 3 Serious
4 Extreme

Minimal

Chronic

Syngenta Hazard Category: B,S

For non-emergency questions about this product call:

1-800-334-9481