## TILT®

Date: 8/24/2018 Replaces: 4/26/2018



#### **1. PRODUCT IDENTIFICATION**

TILT®
A6140A
Fungicide
Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
1-800-334-9481

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

#### 2. HAZARDS IDENTIFICATION

Classifications:	Skin Corrosion/Irritation: Category 2 Oral: Category 4 Inhalation: Category 4 Skin Sensitizer: Category 1B Carcinogenicity: Category 2 Specific Target Organ Toxicity: Repeated Category 2 Eye Damage/Irritation: Category 2A Specific Target Organ Toxicity: Respiratory Irritation Category 3 Aspiration Hazard: Category 1 Flammable Liquid: Category 3
Signal Word (OSHA):	Danger
Hazard Statements:	Flammable liquid and vapor Harmful if swallowed May be fatal if swallowed and enters airways Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation Harmful if inhaled May cause respiratory irritation Suspected of causing cancer May cause damage to organs through prolonged or repeated exposure

Hazard Symbols:



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Pree	cautionary Statements:	Avoid breathing mist, vapors, spray.
		Use only outdoors or in a well-ventilated area.
		Wear eye protection.
		If inhaled: Remove person to fresh air and keep comfortable for breathing.
		If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		Call a poison center, doctor or Syngenta if you feel unwell.
		If eye irritation persists: Get medical advice.
		Obtain special instructions before use.
		Do not handle until all safety precautions have been read and understood.
		Keep away from heat, sparks, open flames, hot surfaces. No smoking.
		Keep container tightly closed.
		Ground and bond container and receiving equipment.
		Use explosion-proof electrical, ventilating, lighting equipment.
		Use only non-sparking tools.
		Take precautionary measures against static discharge.
		Do not breathe mist, vapors, spray.
		Wash hands and face thoroughly after handling.
		Do not eat, drink or smoke when using this product.
		Contaminated work clothing must not be allowed out of the workplace.
		Wear protective gloves, protective clothing, eye protection.
		If swallowed: Call a poison center, doctor or Syngenta if you feel unwell. Rinse mouth.
		If on skin: Wash with plenty of soap and water.
		If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water.
		If skin irritation or rash occurs: Get medical advice.
		If exposed or concerned: Get medical advice/attention.
		See Section 4 First Aid Measures.
		Do NOT induce vomiting.
		Take off contaminated clothing and wash it before reuse.
		In case of fire: Use dry chemical, foam or CO2 for extinction.
		Store in a well-ventilated place. Keep cool.
		Store locked up.
		Dispose of contents and container in accordance with local regulations.
Oth	er Hazard Statements:	None

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#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Common Name	CAS Number	Concentration
Ethyl Benzene	Ethyl Benzene	100-41-4	<5.0%
Xylene	Xylene	1330-20-7	<15.0%
1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene	95-63-6	<20.0%
Petroleum Solvent	Petroleum Solvent	Trade Secret	Trade Secret
Other ingredients	Other ingredients	Trade Secret	>18.2%
1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3- dioxolan-2-yl]methyl]-1H-1,2,4-triazole	Propiconazole	60207-90-1	41.8%

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. 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.
Most importan	nt symptoms/effects:

Eye irritation

Skin irritation

Allergic skin reaction

Respiratory irritation

Indication of immediate medical attention and special treatment needed:

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.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

#### 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:

Flammable liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

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

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:

Warning - flammable vapors may be present. Eliminate sources of ignition and ventilate spill area. Use non-sparking cleanup equipment to prevent vapor ignition.

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 in Protective Equipment Section. 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

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:

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
Ethyl Benzene	100 ppm TWA	20 ppm TWA; 125 ppm STEL	100 ppm TWA; 125 ppm STEL	Manufacturer
Xylene	100 ppm TWA	100 ppm TWA; 150 ppm STEL	100 ppm TWA	NIOSH
1,2,4-Trimethylbenzene	Not Established	25 ppm TWA	25 ppm TWA	NIOSH
Petroleum Solvent	Not Established	Not Established	100 mg/m³ TWA	Manufacturer
Other ingredients	Not Established	Not Established	Not Established	Not Applicable
Propiconazole	Not Established	Not Established	5 mg/m³ TWA	Syngenta

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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 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 barrier laminate or Viton) gloves, coveralls, socks and chemical-resistant footwear.

#### Inhalation:

A combination particulate/ organic vapor respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an HE prefilter.

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: Amber liquid			
Odor: Aromatic solvent			
Odor Threshold: Not Available			
pH: 4 - 7 (1% solution in H2O @ 77°F (25°C))			
Melting point/freezing point: Not Available			
Initial boiling point and boiling range: 356°F (180°C)			
Flash Point (Test Method): 100°F			
Flammable Limits (% in Air): Not Available			
Flammability: Flammable liquid and vapor			
Vapor Pressure: Propiconazole 4.2 x 10(-7) mmHg @ 77°F (25°C)			
Vapor Density: Not Available			
Relative Density: 1.0306 g/cm <sup>3</sup> ; 8.60 lbs/gal @ 68°F (20°C)			
Solubility (ies): Propiconazole 0.1 g/l @ 68°F (20°C)			
Partition coefficient: n-octanol/water: Not Available			
Autoignition Temperature: > 752°F			
Decomposition Temperature: Not Available			
Viscosity: Not Available			
Other: None			

Safety Data Sh	eet	Sy	ngenta®
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10. STABILITY AND READ	CTIVITY		
Possibility of hazardou	tive. table under normal use and sto us reactions: Will not occur. Not Available	rage conditions.	
Incompatible materials Hazardous Decompos	s: None known. ition Products: Not Available		
11. TOXICOLOGICAL INF	ORMATION		
<u>Health effects informati</u> Likely routes of exposu			
Symptoms of exposure	: Eye irritation, Skin irritation,	Respiratory irritation	
Delayed, immediate an	d chronic effects of exposure:	Eye irritation, Skin irritation, Allergic skin reaction system effects	, Respiratory
Numerical measures of	f toxicity (acute toxicity/irritation	studies (finished product))	
Ingestion:	Oral (LD50 Rat) :	1310 mg/kg body weight	
Dermal:	Dermal (LD50 Rabbit) :	> 5000 mg/kg body weight	
Inhalation:	Inhalation (LC50 Rat) :	> 2.5 mg/l air - 4 hours	
Eye Contact:	Moderately Irritating (Rabb	it)	
Skin Contact:	Moderately Irritating (Rabb	it)	
Skin Sensitization:	Sensitizing (Guinea Pig)		
Reproductive/Developr Propiconazole: So Chronic/Subchronic To	me evidence of adverse effects	on development, based on animal experiments.	

Chronic/Subchronic Toxicity Studies

Propiconazole: None observed.

#### **Carcinogenicity**

Propiconazole: Increased hepatocellular adenomas, combined adenomas/carcinomas, and hepatocellular carcinomas observed in male mice in a chronic oral feeding study. However, animals in the high dose group for this study showed excessive toxicity; furthermore, the high dose exceeded the Maximum Tolerated Dose determined in the 90-day range finding study. No treatment-related tumors were seen in female mice in this mouse chronic feeding study. No tumors were noted in a chronic rat study.

Chemical Name	NTP/IARC/OSHA Carcinogen
Ethyl Benzene	IARC Group 2B
Xylene	IARC Group 3
1,2,4-Trimethylbenzene	No

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Petroleum	Solvent	No
Other ingredients		No
	lichlorophenyl)-4-propy -yl]methyl]-1H-1,2,4-tria	
<u>Other Toxic</u> None	city Information	
Toxicity of (	Other Components	
	rimethylbenzene	
	respiratory tract irritati	nethylbenzene at high concentrations can cause central nervous system depression, ion, asphyxiation, cardiac stress and coma. Effects of chronic exposure to this solvent can rs (anemia, leukopenia) and kidney or liver damage.
Ethyl Be		
		nzene at high concentrations can cause central nervous system depression, respiratory iation, cardiac stress and coma.
Other in	ngredients	
	Not Established	
Petrole	um Solvent	dizziness, nausea, loss of consciousness.
V. J	respiratory initiation,	
Xylene		t high concentrations can cause central nervous system depression, respiratory tract , cardiac stress and coma.
Target Orga	ans	
	ngredients	
Propico	nazole:	Liver
Inert Ing	gredients	
1,2,4-Tr	imethylbenzene:	CNS, liver, kidney, blood, respiratory tract, skin, eye
Ethyl Be	enzene:	CNS, respiratory tract, skin
Other in	gredients:	Not Established
Petroleu	um Solvent:	Respiratory tract, CNS, skin
Xylene:		CNS, respiratory tract, skin
2. ECOLOGIO	CAL INFORMATION	
Eco-Acute	Toxicity	
Fis		48-hour EC50 3.2 ppm
Gr	een Algae 9-day EC50	0.72 ppm

Green Algae 9-day EC50 0.72 ppm

Bird (Mallard Duck) 14-day LD50 2510 mg/kg

#### **Environmental Fate**

Propiconazole:

The information presented here is for the active ingredient, propiconazole. Low bioaccumulation potential. Not persistent in soil. Stable in water. 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: Ignitable D001

Listed Waste: Not Applicable

#### **14. TRANSPORT INFORMATION**

#### **DOT Classification**

Ground Transport - NAFTA Proper Shipping Name: Flammable Liquid, N.O.S. (Xylene/Ethylbenzene) Hazard Class: Class 3 Identification Number: UN 1993 Packing Group: PG III Note: RQ = 1000 gal. for Xylene

#### Comments

Water Transport - International Proper Shipping Name: Flammable Liquid, N.O.S. (Xylene/Ethylbenzene), Marine Pollutant, (Propiconazole) Hazard Class: Class 3 Identification Number: UN 1993 Packing Group: PG III

Air Transport Proper Shipping Name: Flammable Liquid, N.O.S. (Xylene/Ethylbenzene) Hazard Class: Class 3 Identification Number: UN 1993 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:

Warning: Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, inhaled, or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid breathing spray mist. This product may cause skin sensitization reactions in certain individuals.

EPA Registration Number(s):

100-617

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes:	Fire Hazard See Section 2 Hazards
Section 313 Toxic Chemicals:	Propiconazole 41.8% (CAS No. 60207-90-1) Ethyl Benzene <5.0% (CAS No. 100-41-4) Xylene <15.0% (CAS No. 1330-20-7)

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1,2,4-Trimethylbenzene <20.0% (CAS No. 95-63-6)

California Proposition 65:

This product contains trace amounts of chemical(s) known to the State of California to cause cancer as unintended impurities resulting from other entities manufacturing or processing operations which Syngenta cannot control.

CERCLA/SARA 304 Reportable Quantity (RQ):

Report product spills > 1,000 gal. (based on p-xylene [RQ = 100 lbs.] content in the formulation)

RCRA Hazardous Waste Classification (40 CFR 261):

Ignitable D001

TSCA Status:

Exempt from TSCA, subject to FIFRA

#### **16. OTHER INFORMATION**

NFPA Hazard Ratings	HMIS Hazard Ratings			0	Minimal		
Health:	2	Health:	2	1	Slight		
Flammability:	2	Flammability:	2	2	Moderate		
Instability:	0	Reactivity:	0	3	Serious		
				4	Extreme		
Syngenta Hazard Category: D,S				*	Chronic		
For non-emergency questions about this product call:							
	1-800-334-9481						
Original Issued Date:	11/15/1985						
Revision Date:	8/24/2018	Replaces:	4/26/2018				
Section(s) Revised:	2,4,11						

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