TILT®

1. PRODUCT IDENTIFICATION

Product identifier on label: TILT®

Product No.: A6140A

Use: Fungicide

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:

   Skin Corrosion/Irritation: Category 2
   Oral: Category 4
   Skin Sensitizer: Category 1B
   Carcinogenicity: Category 2
   Specific Target Organ Toxicity: Repeated Category 2
   Specific Target Organ Toxicity: Drowsiness Category 3
   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
   May cause respiratory irritation
   May cause drowsiness or dizziness
   Suspected of causing cancer
   May cause 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.
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.
Use only outdoors or in a well-ventilated area.
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 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.
If eye irritation persists: Get medical advice.
If exposed or concerned: Get medical advice/attention.
Call a poison center, doctor or Syngenta if you feel unwell.
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.

Other Hazard Statements: None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Benzene</td>
<td>Ethyl Benzene</td>
<td>Trade Secret</td>
<td>&lt;5.0%</td>
</tr>
<tr>
<td>Xylene</td>
<td>Xylene</td>
<td>1330-20-7</td>
<td>&lt;15.0%</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>&lt;20.0%</td>
</tr>
</tbody>
</table>
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 important symptoms/effects:

- Eye irritation
- Skin irritation
- Allergic skin reaction
- Drowsiness or dizziness
- 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.

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 clean-up 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:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Benzene</td>
<td>100 ppm TWA</td>
<td>20 ppm TWA; 125 ppm STEL</td>
<td>100 ppm TWA; 125 ppm STEL</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>Xylene</td>
<td>100 ppm TWA</td>
<td>100 ppm TWA; 150 ppm STEL</td>
<td>100 ppm TWA</td>
<td>NIOSH</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>Not Established</td>
<td>25 ppm TWA</td>
<td>25 ppm TWA</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Petroleum Solvent</td>
<td>Not Established</td>
<td>Not Established</td>
<td>100 mg/m³ TWA</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>Not Established</td>
<td>Not Established</td>
<td>5 mg/m³ TWA</td>
<td>Syngenta</td>
</tr>
</tbody>
</table>

**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): 110°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/cm³ ; 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

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: Not Available
11. TOXICOLOGICAL INFORMATION

Ingestion:
- Oral (LD50 Rat): 1310 mg/kg body weight
- Dermal (LD50 Rabbit): > 5000 mg/kg body weight
- Inhalation (LC50 Rat): > 2.5 mg/l air - 4 hours

Dermal:
- Moderately Irritating (Rabbit)

Eye Contact:
- Moderately Irritating (Rabbit)

Skin Contact:
- Moderately Irritating (Rabbit)

Skin Sensitization:
- Sensitizing (Guinea Pig)

- Increased incidence of liver tumors at extremely high doses (male mice).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Benzene</td>
<td>IARC Group 2B</td>
</tr>
<tr>
<td>Xylene</td>
<td>IARC Group 3</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>No</td>
</tr>
<tr>
<td>Petroleum Solvent</td>
<td>No</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>No</td>
</tr>
<tr>
<td>1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl[methyl]-1H-1,2,4-triazole</td>
<td>No</td>
</tr>
</tbody>
</table>

Reproductive/Developmental Effects
- Propiconazole: None observed.

Chronic/Subchronic Toxicity Studies
- Propiconazole: None observed.

Inhalation of 1,2,4-trimethylbenzene at high concentrations can cause central nervous system depression, respiratory tract irritation, asphyxiation, cardiac stress and coma. Effects of chronic exposure to this solvent can
Target Organs

Active Ingredients
- Propiconazole: Liver
- 1,2,4-Trimethylbenzene: CNS, liver, kidney, blood, respiratory tract, skin, eye
- Ethyl Benzene: CNS, respiratory tract, skin
- Other ingredients: Not Applicable
- Petroleum Solvent: Respiratory tract, CNS, skin
- Xylene: CNS, respiratory tract, skin

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Propiconazole:
- Fish (Rainbow Trout) 96-hour LC50 0.83 ppm
- Invertebrate (Water Flea) 48-hour EC50 3.2 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.

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: Acute Health Hazard
Fire Hazard

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)
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):

Page 8 of 9
Ignitable D001
TSCA Status:
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 2</td>
<td>Health: 2</td>
</tr>
<tr>
<td>Flammability: 2</td>
<td>Flammability: 2</td>
</tr>
<tr>
<td>Instability: 0</td>
<td>Reactivity: 0</td>
</tr>
</tbody>
</table>

Syngenta Hazard Category: C,S

For non-emergency questions about this product call:
1-800-334-9481

Original Issued Date: 11/15/1985
Revision Date: 2/5/2015
Replaces: 3/13/2013
Section(s) Revised: 1-16

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.