

# Turonyx™

## ULTRA READY-TO-SPRAY

### SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

#### 1. IDENTIFICATION

**PRODUCT NAME:** Turonix Ultra Ready-to Spray  
**DESCRIPTION:** Liquid Insecticide  
**EPA REG. NO.:** 91234-296  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

#### 2. HAZARD IDENTIFICATION

##### WARNING

Contains gas under pressure; may explode if heated (H280)  
Very toxic to aquatic life (H400)



##### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Gases Under Pressure, compressed gas	-	None	-
Environmental Hazards		Category	
Hazardous to the aquatic environment, short-term		1	

##### HAZARDS NOT REQUIRING CLASSIFICATION

Contents under pressure. Do not puncture or incinerate container. Exposure to temperature above 120°F may cause bursting. Do not spray directly into any electrical equipment such as radios, television, computers, etc. (where there is exposed wiring or contact points) due to the possibility of short circuits and shock hazard.

##### PRECAUTIONARY STATEMENTS

Protect from sunlight. Store in a well-ventilated place. (P410+P403)  
Avoid release to the environment not in accordance with the product label. (P273)  
Collect spillage. (P391)  
Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Imidacloprid	1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine	138261-41-3	0.05%
Beta-Cyfluthrin	Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano (4-fluoro-3-phenoxyphenyl)methyl ester	68359-37-5	0.025%

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

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® at 1-844-685-9173 for emergency medical treatment information. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

**Note to physician:** No specific antidote is available. Treat the patient symptomatically.

#### 5. FIREFIGHTING MEASURES

**Flash Point:** >110.0°C (>230.0°F)

**Flammable Limits (LFL-UFL):** No data available

**Fire and Explosion Hazards:** Product is contained in a pressurized container which may explode on heating.

**Extinguishing Medium:** Water spray, foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**NFPA Ratings:** Health – 1 / Flammability – 2 / Reactivity – 0

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Environmental Precautions:** Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**Spill Cleanup:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

## 7. HANDLING AND STORAGE

**Handling:** Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

**Storage:** Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### Control parameters

Component	CAS No.	Control parameters	Update	Basis
Imidacloprid	138261-41-3	50 µg/m <sup>3</sup> (ST ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	5 µg/m <sup>3</sup> (AN ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	0.7 mg/m <sup>3</sup> (TWA)		OES BCS
Beta-Cyfluthrin	68359-37-5	50 µg/m <sup>3</sup> (AN ESL)	03 2014	TX ESL
Beta-Cyfluthrin	68359-37-5	50 µg/m <sup>3</sup> (ST ESL)	03 2014	TX ESL
Beta-Cyfluthrin	68359-37-5	0.01 mg/m <sup>3</sup> (TWA)		OES BCS

**Protective Clothing:** In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply. When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations. Chemical resistant nitrile rubber gloves, tightly fitting safety goggles, wear long-sleeved shirt and long pants and shoes plus socks.

**General:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	cloudy white liquid
<b>Odor:</b>	mild sweet
<b>Melting / Freezing point:</b>	no data available
<b>Boiling Point / Boiling Range:</b>	no data available
<b>Flammability:</b>	no data available
<b>Flammability Limits (upper/lower):</b>	no data available
<b>Flash Point:</b>	>110.0°C (>230.0°F)
<b>Auto-ignition Temperature:</b>	no data available
<b>Decomposition Temperature:</b>	no data available
<b>pH:</b>	6-7
<b>Capillary Viscosity:</b>	2.67 cP @ 24°C 1.98 cP @ 38°C
<b>Solubility:</b>	not data available
<b>Partition coefficient:</b>	no data available
<b>Vapor Pressure:</b>	no data available
<b>Density:</b>	8.29 lbs/gal (0.994 g/cm <sup>3</sup> )@ 24°C
<b>Relative Vapor Density:</b>	no data available
<b>Particle Characteristics:</b>	no data available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Exposure to temperature above 120°F may cause bursting.

**CHEMICAL STABILITY:** Stable under all normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** No data available.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No decomposition products expected under normal conditions of use.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

**ORAL TOXICITY (rat LD<sub>50</sub>):** >5,000 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):** >5,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** >5.0 mg/L (4-hour)

**EYE IRRITATION:** Minimally irritating (rabbit)

**SKIN IRRITATION:** Slightly irritation (rabbit)

**SKIN SENSITIZATION:** Non-sensitizing (guinea pig)

### CARCINOGENICITY:

**EPA:** Group E –Evidence of non-carcinogenicity (imidacloprid)  
Not likely to be carcinogenic to humans (beta-cyfluthrin)

**ACGIH:** Not Listed **NTP:** Not Listed

**IARC:** Not Listed **OSHA:** Not Listed

### SPECIFIC TARGET ORGAN TOXICITY-SINGLE OR REPEATED

**EXPOSURE:** Neurotoxic effects were seen in both general animal toxicology studies and studies specially designed to measure neurotoxicity for beta-cyfluthrin. Neurotoxic effects were generally the most sensitive effects for beta-cyfluthrin, as seen in all species, routes, and exposure durations tested. Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays for either active ingredient.

**DEVELOPMENTAL / REPRODUCTIVE TOXICITY:** Developmental effects have been observed in some animal studies however the effects for both beta-cyfluthrin and imidacloprid were related to maternal toxicity.

## 12. ECOLOGICAL INFORMATION

This product is highly toxic to aquatic invertebrates and bees exposed to direct treatment or residues in/on blooming crops or weeds.

The following information is for the active ingredient, Beta-cyfluthrin:

### AQUATIC TOXICITY

Rainbow trout (LC<sub>50</sub> 96-hour): 0.089 mg/L

Bluegill sunfish (96-hour LC<sub>50</sub>): 0.028 mg/L

Daphnia (48-hour LC<sub>50</sub>): 0.00029-0.0018 mg/L

### AVIAN TOXICITY

Japanese quail (Acute Oral LD<sub>50</sub>): >2,000 mg/kg-bw

### MOBILITY IN SOIL

Beta-Cyfluthrin is classified as immobile compound in soils.

The following information is for the active ingredient, Imidacloprid:

## AQUATIC TOXICITY

Rainbow Trout (96-hour LC<sub>50</sub>): > 83 mg/L  
Bluegill (96-hour LC<sub>50</sub>): > 105 mg/L  
Daphnia (48-hour LC<sub>50</sub>): 85 mg/L  
Mysid (48-hour EC<sub>50</sub>): 0.037 mg/L  
Oysters (48-hour EC<sub>50</sub>): > 145 mg/L  
Midge (48-hour EC<sub>50</sub>): 0.069 mg/L  
Amphipod (48-hour EC<sub>50</sub>): 0.115 mg/L

## AVIAN TOXICITY

Bobwhite Quail (LD<sub>50</sub>): 152 mg/kg  
Mallard Duck (5-d LD<sub>50</sub>): > 5,000 mg/kg

## OTHER TOXICITY

Honey Bee: Harmful to honeybees by direct contact, but no problems expected when not sprayed into flowering crop or when used as a seed treatment

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** DO NOT pour or dispose down-the-drain or sewer. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. See container labeling for complete disposal instructions.

## 14. TRANSPORT INFORMATION

### US-DOT:

Shipping Description: UN1950, aerosols, non-flammable (imidacloprid, beta-cyfluthrin), 2.2

Not regulated if shipped as Limited Quantity package

### IMDG:

Shipped internationally by vessel: UN1950, aerosols, non-flammable (imidacloprid, beta-cyfluthrin), 2.2, marine pollutant

### IATA:

Shipped internationally by air: UN1950, aerosols, non-flammable (imidacloprid, beta-cyfluthrin), 2.2

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

### FIFRA –

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. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to wildlife, fish, and aquatic invertebrates. Care should be used when spraying around ornamental ponds. Do not apply directly to water or to areas where surface water is pressure or intertidal areas below the mean high water mark.

### PHYSICAL AND CHEMICAL HAZARDS

Contents under pressure. Do not puncture or incinerate container. Exposure to temperature above 120°F may cause bursting.

Do not spray directly into any electrical equipment such as radios, television, computers, etc. (where there is exposed wiring or contact points) due to the possibility of short circuits and shock hazard.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

**SARA Title III – Section 302 Extremely Hazardous Substances**  
Not listed

**SARA Title III – Section 311/312 Hazard Categories**  
Immediate (Acute)

**SARA Title III – Section 312 Threshold Planning Quantity**  
Not listed

**SARA Title III – Section 313 Reportable Ingredients**  
Beta-cyfluthrin (CAS No. 68359-37-5) : 0.025%

**CERCLA Reportable Quantity (RQ) –**  
Not listed

### CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

### CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 2.0

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Manufactured for:  
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