

Turonyx™

ULTRA FX

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Turonix Ultra FX
DESCRIPTION: Liquid insecticide
EPA REG. NO.: 91234-297
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Harmful if swallowed (H302)
Causes eye irritation (H320)
May cause damage to organs through prolonged or repeated exposure (H373)
Very toxic to aquatic life (H400)



HAZARD CLASSIFICATION

| Health Hazards | Category | Physical Hazards | Category |
|---|----------|--|----------|
| Specific target organ toxicity, repeated exposure | 2 | None | - |
| Serious eye damage / eye irritation | 2B | | |
| Acute toxicity, oral | 4 | Environmental Hazards | Category |
| | | Hazardous to the aquatic environment, short-term | 1 |

HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow to come into contact with any oxidizing agents. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Avoid breathing mist/spray. Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Do not eat, drink or smoke when using this products. Use only outdoor or in a well-ventilated area. Avoid release to the environment not in accordance with the product label.

(P261+P264++P265+P270+P271+P273)

IF SWALLOWED: Get medical help. Rinse mouth (P301+P317+P330)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. (P304+P340+P317)

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 help. (P305+P351+P338+P337+P317)

Get medical help if you feel unwell. (P319)

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 |
|-----------------|---|--------------|-------------|
| Beta-Cyfluthrin | Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-(R)-cyano(4-fluoro-3-phenoxyphenyl)methyl ester, (1S) | 1820573-27-0 | 10.5% |
| Imidacloprid | 1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro- | 138261-41-3 | 21.0% |

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. For emergency medical assistance, call SafetyCall: 1-844-685-9173. For chemical emergency: spill, leak, fire, exposure or accident, call **CHEMTREC: 1-800-424-9300**.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

5. FIREFIGHTING MEASURES

Flash Point: > 110.0°C (230.0°F)

Fire and Explosion Hazards: None known.

Extinguishing Medium: Water spray, foam, carbon dioxide (CO₂), dry chemical.

Fire Fighting Equipment: Firefighters should wear full protective clothing and self-contained breathing apparatus.

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.

Hazardous Combustion Products: Dangerous gases are evolved in the event of a fire.

NFPA Ratings: Health - 1 / Flammability - 1 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Spill Cleanup: Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

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

Occupational Exposure Limits:

| Components | CAS No. | Control parameters | Update | Basis |
|---|-------------|-------------------------------|---------|----------|
| Imidacloprid | 138261-41-3 | 0.7 mg/m ³ (TWA) | | OES BCS* |
| Imidacloprid | 138261-41-3 | 5µg/m ³ (AN ESL) | 07 2011 | TX ESL |
| Imidacloprid | 138261-41-3 | 50µg/m ³ (ST ESL) | 07 2011 | TX ESL |
| Beta-Cyfluthrin | 68359-37-5 | 50µg/m ³ (ST ESL) | 10 2003 | TX ESL |
| Beta-Cyfluthrin (Particulate.) | 68359-37-5 | 50µg/m ³ (ST ESL) | 10 2003 | TX ESL |
| Beta-Cyfluthrin (Particulate.) | 68359-37-5 | 5µg/m ³ (AN ESL) | 10 2003 | TX ESL |
| Beta-Cyfluthrin | 68359-37-5 | 5µg/m ³ (AN ESL) | 10 2003 | TX ESL |
| Beta-Cyfluthrin | 68359-37-5 | 0.01 mg/m ³ (PEL) | | OES BCS* |
| Glycerine (Total dust) | 56-81-5 | 15 mg/m ³ | 02 2006 | OSHA Z1 |
| Glycerine (Respirable fraction.) | 56-81-5 | 5 mg/m ³ | 02 2006 | OSHA Z1 |
| Glycerine (Respirable fraction.) | 56-81-5 | 5 mg/m ³ | 1989 | OSHA Z1A |
| Glycerine (total dust and mist.) | 56-81-5 | 10 mg/m ³ | 06 2008 | TN OEL |
| Glycerine (Respirable fraction and dust or fume.) | 56-81-5 | 5 mg/m ³ (TWA) | 06 2008 | TN OEL |
| Glycerine (Particulate.) | 56-81-5 | 50µg/m ³ (ST ESL) | 02 2013 | TX ESL |
| Glycerine (Particulate.) | 56-81-5 | 5µg/m ³ (AN ESL) | 02 2013 | TX ESL |
| Glycerine (Vapor.) | 56-81-5 | 100µg/m ³ (AN ESL) | 02 2013 | TX ESL |
| Glycerine (Vapor.) | 56-81-5 | 1000µ/m ³ (ST EL) | 02 2013 | TX ESL |

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Applicators and other handlers must wear long-sleeved shirts, long pants, shoes plus socks, and gloves made of any waterproof material.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------|
| Appearance: | opaque white liquid |
| Odor: | mild sweet |
| Melting/freezing point: | not available |
| Boiling point/Boiling range: | not available |
| Flammability: | not available |
| Flammability limits (upper/lower): | not available |
| Flash point: | > 110.0°C (230.0°F) |
| Auto-ignition temperature: | not available |
| Decomposition temperature: | not available |
| pH: | 5.5-6.5 |
| Viscosity: | not available |
| Solubility: | not available |
| Partition coefficient: | not available |
| Vapor pressure: | not available |
| Density: | 9.51 lb/gal |
| Relative vapor density: | not available |
| Particle characteristics: | not available |

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.

CHEMICAL STABILITY: Stable under normal 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

The following data is from a substantially similar product:

ORAL TOXICITY (rat LD₅₀): > 1,044 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 2,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.03 mg/L (4-hr) (highest concentration tested; no deaths)

EYE IRRITATION: Mild eye irritant (Rabbit)

SKIN IRRITATION: Slight irritation (Rabbit)

SKIN SENSITIZATION: Not a sensitizer (Guinea pig)

CARCINOGENICITY:

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

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 (LC₅₀ 96-hour): 0.089 mg/L

Bluegill sunfish (96-hour LC₅₀): 0.028 mg/L

Daphnia (48-hour LC₅₀): 0.00029-0.0018 mg/L

AVIAN TOXICITY

Japanese quail (Acute Oral LD₅₀): >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 LC₅₀): > 83 mg/L

Bluegill (96-hour LC₅₀): > 105 mg/L

Daphnia (48-hour LC₅₀): 85 mg/L

Mysid (48-hour EC₅₀): 0.037 mg/L

Oysters (48-hour EC₅₀): >145 mg/L

Midge (48-hour EC₅₀): 0.069 mg/L

Amphipod (48-hour EC₅₀): 0.115 mg/L

AVIAN TOXICITY

Bobwhite Quail (LD₅₀): 152 mg/kg

Mallard Duck (5-d LD₅₀): > 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: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. DO NOT pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT:

Not regulated

IMDG:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L) or containers not in strong outer packaging:

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (beta-cyfluthrin, imidacloprid), 9, PG III, Marine Pollutant

IATA:

Shipped by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (beta-cyfluthrin, imidacloprid), 9, PG III

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

CAUTION. Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to wildlife, fish, and aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops/plants or weeds.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

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), Delayed (chronic)

SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients
None

CERCLA Reportable Quantity (RQ) –
Not listed

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemicals 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: 1.0

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