

ACURIO™ SC INSECTICIDE

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Acurio SC Insecticide
DESCRIPTION: Flowable Insecticide
EPA REG. NO.: 91234-406
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Harmful if swallowed (H302)
Harmful if inhaled (H332)
Very toxic to aquatic life. (H400)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute Toxicity, Oral	4	None	-
Acute Toxicity, Inhalation	4		
Environmental Hazards		Category	
Hazardous to the Aquatic Environment – Acute			1

HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Avoid breathing mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or with adequate ventilation. (P261+P264+P270+P271)

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)

Avoid release to the environment. (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	1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-	138261-41-3	42.3%

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 day or night within USA and Canada: **1-800-424-9300 or +1 703-527-3887** (collect calls accepted).

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have a 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 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 a poison control center or doctor for further treatment advice.

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

5. FIREFIGHTING MEASURES

Flash Point: >230.0°F; >110.0°C

Flammable Limits (LFL-UFL): Not determined

Fire and Explosion Hazards: In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing Medium: Water spray, foam, or dry chemical.

Fire Fighting Equipment: Firefighters should be equipped with self-contained breathing apparatus with a full face-piece operated in positive pressure mode and full protective clothing.

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.

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.

6. ACCIDENTAL RELEASE MEASURES (CONT.)

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 container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

7. HANDLING AND STORAGE

Handling: Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling.

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

Control parameters

Occupational exposure limits

Ingredient name	CAS No.	Exposure limits
Imidacloprid (ISO)	138261-41-3	TWA: 0.7 mg/m ³

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 shirt and long pants, chemical-resistant gloves made of any waterproof material such as barrier laminate \geq 14 mils., butyl rubber \geq 14 mils., nitrile rubber \geq 14 mils., neoprene rubber \geq 14 mils., natural rubber \geq 14 mils., polyethylene, polyvinyl chloride (PVC) \geq 14 mils., or Viton \geq 14 mils., 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. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	opaque beige liquid
Odor:	moderately sweet
Melting / Freezing point:	no data available
Boiling Point / Boiling Range:	no data available
Flammability:	>230.0°F; >110.0°C
Flammability Limits (upper/lower):	no data available
Flash Point:	>230.0°F; >110.0°C
Auto-ignition Temperature:	no data available
Decomposition Temperature:	no data available
pH:	6.56
Brookfield Viscosity:	336-15,920 cP @ 25°C 288-13,200 cP @ 39°C
Solubility:	no data available
Partition coefficient:	not available
Vapor Pressure:	not available
Density:	9.46 lb./gal
Relative Vapor Density:	no data available
Particle Characteristics:	no data available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

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

INCOMPATIBILITY WITH OTHER MATERIALS: Incompatible with strong oxidizing agents.

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 LD₅₀): 609 mg/kg

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

INHALATION TOXICITY (rat, male LC₅₀): 2.5 mg/L (4-hour); **(rat, female LC₅₀):** >1.02 -<2.02 mg/l (4-hour)

EYE IRRITATION: Minimally irritating (Rabbit)

SKIN IRRITATION: Slight irritant – does not require labeling (Rabbit)

SKIN SENSITIZATION: Non-sensitizing (Guinea pig)

CARCINOGENICITY:

EPA: Group E – Evidence of non-carcinogenicity (imidacloprid)

ACGIH: A4-Not Classifiable as a Human Carcinogen **NTP:** Not Listed

IARC: Not Listed

OSHA: Not Listed

MUTAGENIC TOXICITY: Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.

12. ECOLOGICAL INFORMATION

This pesticide is highly toxic to bees.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater.

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

Honeybee: 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. 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: Non-refillable 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. (5L) in strong outer packaging:

Not regulated

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

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

IATA:

Shipped by air:

UN3082, Environmentally hazardous substance, liquid, N.O.S. (imidacloprid), 9, PG III, Marine Pollutant

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 swallowed, absorbed through skin, or inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops/plants or weeds. Do not apply this product or allow it to drift to blooming crops/plants or weeds if bees are foraging in or adjacent to the treatment area. This product is toxic to wildlife and highly toxic to aquatic invertebrates.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. 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)

SARA Title III – Section 312 Threshold Planning Quantity

Not listed

SARA Title III – Section 313 Reportable Ingredients

Not listed

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.

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