



MINEIROTM 2F

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Mineiro 2 F
DESCRIPTION: Liquid Insecticide
EPA Reg. No.: 91234-137
COMPANY IDENTIFICATION: Atticus, LLC
 940 NW Cary Parkway, Suite 200
 Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Causes eye irritation (H320)
 Very toxic to aquatic life. (H400)

HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Eye Damage / Irritation	2B	None	-
		Environmental Hazards	Category
		Hazardous to the Aquatic Environment – Acute	1

HAZARDS NOT REQUIRING CLASSIFICATION

None

PRECAUTIONARY STATEMENTS

Wash hands and exposed skin thoroughly after handling Do not touch eyes. (P264+P265)

Avoid release to the environment not in accordance with the product label. (P273)

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)

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	21.4%

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**.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 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°C (>230°F)

Flammable Limits (LFL-UFL): No data available

Fire and Explosion Hazards: None known

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

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.

NFPA Ratings: Health – 1 / Flammability – 1 / 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.

7. HANDLING AND STORAGE

Handling: Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Avoid contact with skin, eyes, or clothing.

Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the 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	Basis
Imidacloprid	138261-41-3	0.7 mg/m ³ (TWA) 5 µg/m ³ (AN ESL) 50 µg/m ³ (ST ESL)	Internal Bayer CropScience OES TX ESL TX ESL

Protective Clothing: Applicators and other handlers must wear: long-sleeved shirt and long pants; chemical resistant gloves; 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

Appearance:	beige liquid
Odor:	slightly sweet and sour
Melting / Freezing point:	-6.7°C/19.9°F
Boiling Point / Boiling Range:	no data available
Flammability:	not flammable
Flammability Limits (upper/lower):	not available
Flash Point:	>230°F (>110°C)
Auto-ignition Temperature:	no data available
Decomposition Temperature:	no data available
pH:	5.5-6.5 (1% dispersion)
Kinematic Viscosity:	350-600 mPA.s
Solubility:	not data available
Partition coefficient:	no data available
Vapor Pressure:	no data available
Density:	1.12 g/cm ³ @ 25°C
Relative Vapor Density:	no data available
Particle Characteristics:	no data available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Freezing

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 LD₅₀): 4,143 mg/kg

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

INHALATION TOXICITY (rat LC₅₀): >5.33 mg/L (4-hour)

EYE IRRITATION: Minimally irritating (rabbit)

SKIN IRRITATION: No skin irritation (rabbit)

SKIN SENSITIZATION: Not a contact sensitizer (guinea pig)

CARCINOGENICITY:

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

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

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

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

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with imidacloprid is related to parental 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 aquatic invertebrates and bees exposed to direct treatment or residues on blooming crops/plants or weeds.

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): 211 mg/L

Daphnia magna (48-hour LC₅₀): 85 mg/L; Chironomus riparius (midge) (24-hour LC₅₀): 0.0552 mg/L

Algae (72-hr EC₅₀): > 10 mg/L

OTHER TOXICITY

Honeybee: Harmful to honeybees by direct contact, but no problems expected when not sprayed into flowering crops or when used as a seed treatment.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

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. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops/plants or weeds.

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

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

SARA Title III – Section 312 Threshold Planning Quantity

Not listed

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA Reportable Quantity (RQ) –

Not listed

CALIFORNIA PROP 65 STATUS –

 **WARNING:** This product can expose you to chemicals including ethylene oxide, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

15. REGULATORY INFORMATION (CONT.)

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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