

# Armor Tech

## IP 233 Fungicide

### MATERIAL SAFETY DATA SHEET

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** IP 233 Fungicide  
**Active Ingredient:** Iprodione  
**Chemical Name:** 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide  
**Chemical Formula:** C<sub>13</sub>H<sub>13</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>3</sub>

#### COMPANY IDENTIFICATION:

Etigra, LLC  
2214 Hwy 44 West  
Inverness, FL 34453

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Iprodione	CAS No. 36734-19-7	23.3%
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#### 3. HAZARD IDENTIFICATION

##### EMERGENCY OVERVIEW

Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

#### POTENTIAL HEALTH EFFECTS:

**EYE** – Causes irritation, redness. Avoid contact with eyes. In case of eye contact, flush eyes with plenty of water. Get medical attention if irritation persists.

**SKIN** – This product is essentially non-irritating. Harmful if absorbed through the skin. Avoid contact with skin or clothing. In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation persists.

**INGESTION** – Harmful if swallowed. May cause nausea, vomiting, abdominal pain, loss of coordination.

**INHALATION** – Harmful if inhaled. Can cause upper respiratory tract irritation. Avoid breathing vapor or spray mist.

**CHRONIC OR DELAYED LONG-TERM** – This product does not contain any ingredients designated by IARC, ACGIH or OSHA as probable or suspected human carcinogens.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE** – Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

#### 4. FIRST AID

**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.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTE TO PHYSICIAN:** All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote.

**Manufactured for:**  
Etigra, LLC  
2214 Hwy 44 West  
Inverness, FL 34453

**Emergency Phone: Chemtrec 800-424-9300**

Effective Date:

EPA Reg. No. 81959-4



**United Turf Alliance**

This product is irritating to mucous membranes. If large amounts (greater than 1 ml/kg body weight) of the product have been ingested, the stomach should be evacuated by gastric intubation with the aid of a cuffed endotracheal tube to prevent exposure of the esophagus. After removal of stomach contents, wash stomach by instilling 30-50 grams of activated charcoal in 3-4 ounces of water through the stomach tube and again remove stomach contents. Avoid oily laxatives.

## 5. FIRE-FIGHTING MEASURES

**Flash Point:** N/D

**Flammable Limits (LFL-UFL):** N/D

**Fire and Explosion Hazards:** Under fire conditions, toxic, corrosive fumes are emitted.

**Means of Extinction:** Small fires – dry chemical, carbon dioxide; Large fires – foam, water spray.

**Fire-Fighting Instructions:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike areas to prevent runoff and contamination of water sources. Dispose of fire control water later.

## 6. ACCIDENTAL RELEASE MEASURES

Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8 "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of area. Pump any free liquid into an appropriate closed container. Clean up residual material as appropriate. Absorb with vermiculite or other inert absorbent. Decontaminate tools and equipment following cleanup. Collect washings for disposal.

**LAND SPILLS OR LEAKS:** Containment of Spill: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

**Environmental and Regulatory Reporting:** Prevent material from entering public sewer system or any waterway. Do not flush to drain. If spilled on ground, the affected area should be removed to a depth of one or two inches and placed in an appropriate container for disposal.

## 7. HANDLING AND STORAGE

Store in original container only. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Do not ingest. Avoid direct or prolonged contact with skin and eyes. Do not breathe vapors and mists. Wash thoroughly after handling this product.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal Protective Equipment:**

**Eyes and Face:** Wear protective eyewear; do not get this product in your eyes.

**Respiratory Protection:** Use this product only in well ventilated areas. Unless ventilation is adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

**Mixers, loaders, others exposed to the concentrate, cleaners/repairers of equipment, and applications applying as a dip treatment must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils
- Chemical-resistant apron
- Chemical-resistant footwear plus socks

**Applicators using hand-held equipment must wear:**

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- A dust/mist filtering respirator (MSHA/NIOSH approval number TC-21C) or a NIOSH approved respirator with any R, P or HE filter.

Additional information on personal protective clothing for applicators using aircraft or mechanical ground equipment and applicators using truck-mounted equipment to apply this product may be found on the product label.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Off-white opaque liquid

**pH:** 5.44

**Melting Point:** N/A

**Density:** 1.034 g/ml

**Viscosity:** 918.1 cSt (20°C); 478.0 cSt (20°C)

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Open flame, elevated temperatures, sparks, static electricity.

**CHEMICAL STABILITY:** This product is stable under normal handling and storage conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal: hydrogen chloride, oxides of nitrogen, oxides of sulfur.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong bases, strong acids, strong oxidizing agents.

**POLYMERIZATION:** N/A

## 11. TOXICOLOGICAL INFORMATION

**ACUTE ORAL TOXICITY**

Oral LD<sub>50</sub> (rat): > 5,000 mg/kg

**ACUTE DERMAL TOXICITY**

Dermal LD<sub>50</sub> (rabbit): > 2,000 mg/kg

**ACUTE INHALATION TOXICITY**

Inhalation LC<sub>50</sub> (rat): 2.03 mg/L (4 hr.)

**EYE IRRITATION:** Slightly irritating to the eye of rabbits.

**SKIN IRRITATION:** Non-irritating to the skin of rabbits.

**CARCINOGENICITY:**

**ACGIH:** Not listed

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL INFORMATION:** This chemical can contaminate surface water through aerial and ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

This pesticide is toxic to invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treated areas is hazardous to aquatic invertebrates in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### AVIAN TOXICITY

Technical product – Oral LD<sub>50</sub>, Northern Bobwhite Quail – > 2000 mg/kg

Technical product – Oral LD<sub>50</sub>, Mallard – 10,437 mg/kg

Technical product – 5 Day LC<sub>50</sub>, Northern Bobwhite Quail – > 5620 ppm

Technical product – 5 Day LC<sub>50</sub>, Mallard Duck – > 5620 ppm

### FISH TOXICITY

Technical product – 96 hour LC<sub>50</sub>, Bluegill – 6.3 ppm

Technical product – 96 hour LC<sub>50</sub>, Rainbow Trout – 4.1 ppm

### BEE TOXICITY

Iprodione, the active ingredient in Iprodione E-Pro Fungicide is considered to be relatively nontoxic to bees on an acute contact basis.

## 13. DISPOSAL CONSIDERATIONS

**General Guidance:** chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

**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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

## 14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not regulated by DOT

DOT HAZARD CLASS OR DIVISION: N/A

DOT UN/NA NUMBER: N/A

DOT PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

MARINE POLLUTANT: No

DOT EMERGENCY RESPONSE GUIDE: N/A

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS

#### FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

#### TSCA 12b export notification

None

#### SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

#### SARA Title III – Section 313 Reportable Ingredients

None

#### CALIFORNIA PROP 65 STATUS –

This product contains a chemical known to the State of California to cause cancer: Iprodione (36734-19-7)

#### International Regulations

EU Classification

IPRODIONE (36734-19-7) – Harmful Dangerous for the environment.

R Phrases: Possible risks of irreversible effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases: Keep out of the reach of children. Wear suitable protective clothing and gloves. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

## 16. OTHER INFORMATION

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

	Health	Flammability	Reactivity
HMIS	2	1	0
NFPA	2	1	0

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