



Address: 21 Hubble, Irvine , CA 92618, USA  
Tel.: 949-679-3535 Fax.: 949-679-3538  
Email: Info@amtide.com

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## Material Safety Data Sheet (MSDS)

MSDS# AT-INC00210-09

Date: 2/6/09

### Section 1 - Product Chemical and Company Identification

Product name	Imidacloprid 2F
Product Use	Insecticide
Company	AmTide LLC.
EPA Reg. No.	83851-12,13 & 14
Emergency phone	Chemtrec 1-800-424-9300 AmTide LLC. 1-949-679-3535

### Section 2 - Composition /Information on Ingredients

Active Ingredient	CAS number	w/w %
Imidacloprid	138261-41-3	22.6%
Other ingredients		77.4%

### Section 3 - Hazards Identification

#### Emergency overview

#### CAUTION:

Can be harmful if absorbed through the skin.

Can be harmful if inhaled.

Can be harmful if swallowed.

Repeated exposure to vapors and/or dust can cause eye injury.

### Section 4 - First Aid Measures

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to the doctor.

#### Inhalation

If inhaled, remove to fresh air and keep warm and at rest. Seek medical advice if at all worried.

#### Skin contact

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.

#### Eye contact

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.

**Ingestion** 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.



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### **Notes to physician**

Medical treatment: Check blood oressure and pulse rate frequently, as bradycardia and hypotonia are possible. Provide supportive measures for respiratory function and cardiac action. Give artificial respiration if signs of paralysis appear. Additional therapeutic measures involve elimination of the substance form the body or acceleration of its excretion (gastric lavage, saline laxatives, activated charcoal).

Antidotes (if existing): No antidote is available, treated symptomatically.

### **Section 5 - Fire Fighting Measures**

**Flash point:** Not applicable

**Extinguishing media:** Water, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

**Flammable limits:** Not applicable

**Fire fighting instructions:** Keep out of smoke. Cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing equipment. Contain runoff by diking to prevent entry into sewers or waterways. Equipment or materials involved in pesticide fires may become contaminated.

### **Section 6 - Accidental Release Measures**

#### **General and Disposal**

Use proper protective equipment to minimize personal exposure (see Section 8). Sweep up spilled material. Place in a container for disposal.

#### **Land Spill or Leaks**

Isolate area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing vapors and skin contact. Do not breathe dust. Avoid generating dust (a fine water spray mist, plastic film cover, or floor sweeping compound may be used if necessary).

Do not allow material to enter streams, sewers, or other waterways. Scrub contaminated area with soap and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed.

### **Section 7- Handling and Storage**

#### **Handling**

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up the spilled material to prevent runoff. Refer to the Precautionary Statements section of this label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.



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Advice on safe handling: Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Discard contaminated shoes. Keep away from heat, sparks and flame.

### **Storage**

Store in a cool, dry place and in such a manner as to prevent cross-contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

## **Section 8 - Exposure Controls/Personal Protection**

### **Engineering Controls**

Where engineering controls are indicated by use conditions of a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: Control exposure levels through the use of general and local exhaust ventilation. When handlers used 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.

### **Eye/Face Protection**

Goggles should be used to prevent dust from getting into eyes.

### **Hand Protection**

Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton

### **Body Protection**

Long-sleeved shirt and long pants. Shoes plus socks.

### **Respiratory Protection**

No personal respiratory protective equipment normally required. When respiratory protection is necessary under the conditions of use, wear a respirator approved for pesticides by the National Institute for Occupational Safety and Health (NIOSH).

### **General Protection**

Clean water and soap should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Exposure Limits** None Established

## **Section 9 - Physical and Chemical Properties**



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**Appearance:** White opaque flowable

**Odor:** Aromatic –like odor

**Flammability:** > 100°C

**Density:** 1.111g/ml

**pH:** 6.56-7.25

**Viscosity:** 243.25 Centistokes (20°C)

These physical data are typical values based on material test but may vary from sample to sample. Typical values should not construed as a guaranteed analysis and any specific lot or as specification items.

### **Section 10 - Stability and Reactivity**

**Chemical stability:** Stable under room temperature

**Incompatibility:** None known

**Conditions to avoid:** Not known

**Hazardous:** Proposed compounds due to fire or other extreme conditions: Hydrogen chloride, Hydrogen cyanide (hydrocyanic acid), Carbon monoxide, Nitrogen oxides (NOx)

**Hazardous polymerizations:** Will not occur.

### **Section 11 - Toxicological Information (Based on the active Ingredient)**

**Acute oral LD50:** 1,750 mg/kg (rat)

**Acute dermal LD50:** >5,050 mg/kg (rabbit)

**Acute inhalation LC50:** >2.25 mg/L air 4 hours

**Eye irritation:** Rabbit: no observed irritation after 48 hours, Toxicity Category IV.

**Skin irritation:** Rabbit: No dermal irritant based on 72h observations. Toxicity Category IV.

**Sensitization:** Guinea pig: Not a dermal sensitizer.

#### **Sub-Chronic Toxicity**

In a 3-week dermal toxicity study, rabbits treated with imidacloprid showed no local or systemic effects at levels up to and including 1000 mg/Kg, the limit dose.

In a 4-week inhalation study, rats exposed to high concentrations of imidacloprid exhibited decreased body weight gains and changes in clinical chemistries and organ weights.

#### **Chronic Toxicity**

In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroid and/or liver.

#### **Assessment Carcinogenicity**

In oncongenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

**ACGIH:** None

**NTP:** None

**IARC:**None



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**OSHA:** None

**Reproductive & Developmental Toxicity**

**REPRODUCTIVE:** In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with material toxicity.

**DEVELOPMENTAL:** In developmental toxicity studies in rats and rabbits, there was no evidence of an embryonic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

**Neurotoxicity**

In acute and subchronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested.

There were no correlating morphological changes observed in the neural tissues.

**Mutagenicity**

The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

**Section 12 - Ecological Information (Based on the active ingredient)**

Fish LC<sub>50</sub> (96 h) for rainbow trout 214.4 mg/L.

Daphnia EC<sub>50</sub> (48 h) >336.92mg/L.

**Environmental hazards:**

This product is highly toxic to aquatic invertebrates. Keep out of lakes, streams, or ponds. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

This product is highly toxic to bees exposed to direct treatment of residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Do not allow material to contaminate ground water system.

**Section 13 - Disposal Considerations**

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

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



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#### Section 14 - Transport Information

##### ICAO/IATA (air):

**Proper Shipping name** Not hazardous or regulated  
**Hazard Class Division No.** Non-regulated

#### Section 15 - Regulatory Information

##### US Federal Regulations

**TSCA list** None

**TSCA 12b export notification** None

**SARA Title III - section 302 - notification and information** None

**SARA Title III - section 313 - toxic chemical release reporting** None

##### US States Regulatory Reporting

###### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State right-to-know ingredients** None

##### Canadian Regulations

**Canadian Domestic Substance List** None

##### Environmental

**CERCLA** None

**Clean Water Section 307 Priority Pollutants** None

**Safe Drinking Water Act Maximum Contaminant Levels** None

##### International Regulations

**EU Classification** None

**European Inventory of Existing Commercial Substances (EINECS)** None

#### Section 16 - Other Information

*The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. AmTide, LLC assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data.*