



# Adonis™ 2F Insecticide

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Equil™ Adonis™ 2F Insecticide  
**EPA Reg. Number:** 87276-6  
**Chemical Name:** 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine  
**Chemical Formula:** C<sub>9</sub>H<sub>10</sub>ClN<sub>5</sub>O<sub>2</sub>

#### COMPANY IDENTIFICATION:

Envincio LLC  
501 Cascade Pointe Lane, Suite 103  
Cary, NC 27513  
www.envincio.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

ACTIVE INGREDIENTS	CAS NO.	% COMPOSITION
Imidacloprid	138261-41-3	21.4

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 3. PHYSICAL DATA

**APPEARANCE:** Off-white viscous liquid  
**ODOR:** Mild Odor  
**pH:** 7.62  
**SPECIFIC GRAVITY/BULK DENSITY:** 1.111 g/cm<sup>3</sup>  
**FLASHPOINT (PMA-4):** Not established

### 4. HAZARD IDENTIFICATION

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

### 5. 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 a 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 (prefer-

ably by mouth-to-mouth) if possible. Call a poison control center or doctor for further treatment advice.

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

**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.

Have the product container or label with you when calling a poison central center or doctor, or going for treatment. You may also contact 1-866-257-4118 for emergency medical treatment information.

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

### 6. FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** Not applicable

**FLAMMABLE LIMITS (LFL-UFL):** Unknown

**FIRE AND EXPLOSION HAZARDS:** Can burn in fire releasing irritating and toxic gasses due to thermal decomposition or combustion.

**MEANS OF EXTINCTION:** Use foam, dry chemical, carbon dioxide or water spray.

**FIRE FIGHTING INSTRUCTIONS:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Cool closed containers exposed to fire with water spray. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical extinguishing systems are preferred to prevent environmental damage due to runoff. Equipment or materials involved in pesticide fires may become contaminated.

**FIREFIGHTING EQUIPMENT:** Self-contained breathing apparatus with full face piece.

**HAZARDOUS COMBUSTION PRODUCTS:** Hydrogen cyanide, hydrogen chloride, carbon monoxide and nitrogen oxide.

NFPA Rating

Health	1
Flammability	1
Reactivity	1
Other	None



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### 7. REACTIVITY DATA

**CONDITIONS TO AVOID:** Extreme Temperatures.

**CHEMICAL STABILITY:** Stable but may decompose if heated.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, hydrogen cyanide and oxides of nitrogen and carbon.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known.

**POLYMERIZATION:** Will not occur.

### 8. SPILL OR LEAK PROCEDURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Do not walk through spilled material and avoid breathing vapors and skin contact. Do not allow material to enter streams, sewers or other waterways or to contact vegetation.

For large spills, material should be recovered. For small spills, absorb with absorbent granules, spill control pads or other absorbent material. Carefully sweep up absorbed spilled material and place in covered container for disposal. Scrub contaminated area with soap and water and use dry absorbent granules to collect wash solution for disposal. Contaminated soil may have to be removed and disposed.

### 9. PERSONAL PROTECTION INFORMATION

#### PERSONAL PROTECTIVE EQUIPMENT (PPE) WPS AND TERMITICIDE USES:

Applicators and other handlers (mixers and loaders) who handle this product for uses covered by the Worker Protection Standard (40 CFR part 170) – such as sod farms; or who are using this product as a termiticide, must wear:

- Long-sleeved shirt and long pants
- 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. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/ maintaining personal protective equipment, PPE. If no such instructions for

washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

When used as a termiticide, once the product is diluted as directed on the label, shirt, pants, shoes and socks may be worn. All pesticide handlers must wear protective eyewear when working in a non-ventilated space or when applying termiticide by rodding or sub-slab injection.

#### NON-WPS USES:

- Applicators and other handlers must wear:
- Shirt and pants
- Gloves
- Shoes plus socks

Engineering controls statements: 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(4)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### 10. HANDLING AND 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.

### 11. TOXICOLOGICAL INFORMATION

**ORAL LD<sub>50</sub>** (rat): 1,190 mg/kg

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

**INHALATION LC<sub>50</sub>** (rat): > 3.452 mg/L

**EYE IRRITANT** (Rabbit): Non-Irritating

**SKIN IRRITATION** (Rabbit): Non-Irritating

**SENSITIZATION** (Guinea Pig): Not a Contact Sensitizer

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**  
None known.

#### CARCINOGENICITY:

ACGIH: Not listed

IARC: Not listed

NTP: Not listed

OSHA: Not listed



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

**ADDITIONAL DATA:** Not known to cause reproductive or birth defects at normal exposure levels.

### 12. ECOLOGICAL INFORMATION

This product is highly toxic to aquatic invertebrates. 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.

This product is highly toxic to bees exposed to direct treatment or residues on the foliage of 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.

This product is toxic to wildlife.

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.

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

**(Nonrefillable < 5 Gallons):** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available: then dispose of container in sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**(Nonrefillable > 5 Gallons):** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at

least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available: then dispose of container in sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### 14. SHIPPING 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:** Not Listed

**DOT EMERGENCY RESPONSE GUIDE:** N/A

**COMMENTS: SIGNAL WORD:** CAUTION

### 15. REGULATORY INFORMATION

**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.

**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**  
N/A

**SARA Title III – Section 313 Reportable Ingredients**  
None

**CERCLA –** None Listed

**CALIFORNIA PROP 65 STATUS –** Not listed



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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.

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by Envincio LLC as to the results to be obtained based upon your use of the information, nor does Envincio LLC assume any liability arising out of your use of the information.

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