



Address: 21 Hubble, Irvine, CA 92618, USA  
Tel.: 949-753-4723 Fax.: 949-753-4729  
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**Material Safety Data Sheet (MSDS)**

**MSDS# AMT-HER8385119**

**Date: 05/30/2011**

**Section 1 - Product Chemical and Company Identification**

Product name	Imazapyr 2SL		
Product use	Herbicide		
Company	AmTide, LLC.		
Emergency phone	Chemtrec	1-800-424-9300	
	AmTide, LLC.	1-949-753-4723	

**Section 2 - Composition /Information on Ingredients**

Active Ingredient	CAS number	w/w %
Imazapyr	81334-34-1	≥27.6
Other ingredients	/	≤72.4

**Section 3 - Hazards Identification**

**Emergency Overview:**

**CAUTION!**

May causes moderate eye irritation. Harmful if absorbed through skin, swallowed, or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**Potential Health Effects:**

Based on animal data from components, eye contact may cause eye irritation with discomfort, tearing, or blurring of vision.

Based on animal data from components, repeated dermal contact may cause skin irritation with itching, burning, redness, swelling or rash.

No other known chronic effects.

**Potential Environmental Effects:**

There us a high probability that the product is not acutely harmful to fish.

There is a high probability that the product is not acutely harmful to aquatic invertebrates.

Acutely harmful for aquatic plants.

With high probability not acutely harmful to terrestrial organisms.

**Section 4 - First Aid Measures**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water



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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 the eye. Call a poison control center or doctor immediately 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 mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

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.

Note to physician: Treat symptomatically. No specific antidote.

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

Extinguishing Media: Water Spray, Foam, Dry Chemical, CO<sub>2</sub>.

Fire Fighting Instructions:

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Runoff from fire control may be a pollution hazard. If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

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

Safeguards (Personnel):

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

Initial Containment:

Dike spill. Prevent material from entering sewers, waterways, or low areas. Follow applicable Federal, State/Provincial and Local laws/ regulations.

Spill Clean Up:

Shovel or sweep up. Dispose of in an approved container.

For minor spills, leaks, etc., follow all precautions indicated on the product label and clean up immediately. Take special care to avoid contamination of equipment and facilities during



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cleanup procedures and disposal of wastes.

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

Handling (Personnel):

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Handling (Physical Aspects):

Spray solutions of this product should be mixed, stored, and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers. Do not mix, store, or apply product or spray solutions of this product in unlined steel (except stainless steel) containers or spray tanks.

Storage:

Do not contaminate water, food or feed by storage or disposal. Store above 10°F (-12°C). Store in original container only. Store in a cool, dry place.

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

#### **Engineering Controls:**

Use only with adequate ventilation. Keep container tightly closed.

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 (40CFR 170.240 (d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **Personal Protective Equipment**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Chemical resistant gloves made of any waterproof material, such as polyethylene or polyvinylchloride.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.



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- Shoes plus socks.
- Chemical resistant gloves made of any waterproof material.

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

Appearance: Light amber liquid

Odor: Mild surfactant odor

pH value: 5.0-7.0

Density: 1.12±0.01 g/cc

Solubility: In water: easily soluble;

In acetone 3.39, dimethyl sulfoxide 47.1, hexane 0.00095, methanol 10.5, methylene chloride 8.72, toluene 0.18 (all in g/100mL, on basis of A.I.)

Stability: Stable under normal conditions

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

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

Stability: Stable under normal conditions.

Incompatibility: Non Known.

Polymerization: Will not occur.

Conditions to avoid: Keep away from strong oxidizing agents.

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

Acute oral toxicity: LD50 > 5000 mg/kg to female rats; female mice > 2000 mg/kg

Acute dermal toxicity: LD50 > 2000 mg/kg to rabbits.

Acute inhalation toxicity: LC50 > 1.3 mg/L air to rats

Acute dermal irritation: Mild skin irritation.

Acute eye irritation: Eyes irritation

Skin sensitization: None skin sensitizing reaction in guinea pig.

Chronic effects: Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

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

Bird: LD50 for bobwhite quail and mallard ducks > 2150 mg/kg.

Fish LC50 (96 h) for rainbow trout, bluegill sunfish, and channel catfish > 100 mg/L

Daphnia EC50 (48 h) > 100 mg/L.

Bees: Dermal LD50 for honeybees > 100 µg/bee.

(on basis of A.I.)



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### **Environmental hazards**

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.

### **Section 13 - Disposal Considerations**

#### **Pesticide Disposal:**

Do not contaminate water supply, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Comply with Federal, State and local regulations.

#### **Container Disposal:**

Disposal of the container must be in compliance with State and local regulations.

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### **Section 14 - Transport Information**

#### Shipping Information

DOT: Not Regulated by 49 CFR (DOT)

IMO/IMDG: Not Regulated by IMO/IMDG

IATA: Not regulated by IATA

Additional Information: Although material is not regulated by the DOT/IMO/IATA, it may be transported as a Class 9 (UN3077) under special provision SP146 (DOT), 909 (IMDG) or A97 (IATA).

### **Section 15 - Regulatory Information**

#### U.S. Federal Regulations

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312



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Acute: Yes

Chronic No

Fire: No

Reactivity: No

Pressure: No

**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.*