

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: IMICIDE®
Synonym: None
Product Use: Systemic insecticide for tree injection only
EPA Registration No.: 7946-16 and 7946-25
Product Type: Liquid
Company Name: J. J. MAUGET COMPANY
Company Address: 129 Growth Center NE #A
Floyd, VA 24091
Tel: 626-444-1057
Emergency Contact: INFOTRAC 1-800-535-5053
911

2. HAZARDS IDENTIFICATION**Classification:**

Eye Irritation: GHS Category 2B
Reproductive Toxicity: GHS Category 1B
Flammable Liquid: GHS Category 4
Skin corrosion/irritation: GHS Category 3
Respiratory Toxicity (Acute): GHS Category 3
Aquatic Toxicity (Acute and Chronic): GHS Category 1

Signal Word

DANGER

Hazard Statements:

H227 – Combustible liquid.
H316 - Causes mild skin irritation.
H320 – Causes eye irritation.
H335 – May cause respiratory irritation.
H360 – May damage fertility or the unborn child.
H410 – Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention:

P203 – Obtain, read, and follow all safety instructions before use
P210 – Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking
P261 – Avoid breathing dust or spray
P264 – Wash hands thoroughly after handling
P271 – Use only outdoors or in a well-ventilated area
P273 – Avoid release to the environment
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response:

P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing
P332+P337+P317 – If skin irritation occurs or eye irritation persists: Get medical help
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P318 – IF exposed or concerned, get medical advice
P319 – Get medical help if you feel unwell
P391 – Collect Spillage

Precautionary Statements - Storage:

P403+P233 – Store in a well-ventilated place, Keep container tightly closed
P405 – Store locked up

Precautionary Statements - Disposal:

P501 - Dispose of contents/container in accordance with local, state, and federal regulations

Emergency Overview

May cause irritation to the eyes, skin, and respiratory tract. May cause harm to the unborn child. Maybe harmful if swallowed, inhaled, or absorbed through the skin. Light sensitive. Combustible liquid and vapor. Hygroscopic.

HMIS Rating:

Health – 1 Flammability – 1 Physical Hazard – 1 PPE – User supplied

NOTE: HMIS ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. These ratings are based on the inherent properties of this chemical under expected conditions of normal use and are not intended to be used in emergency situations. PPE is determined by the user based on their needs and conditions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>CAS No.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
Imidacloprid	138261-41-3	N/A	N/A	10.0
Tetrahydrofurfuryl alcohol (THFA)	97-99-4	N/A	N/A	Trade Secret

Ingredients not listed are considered a trade secret and are withheld under 29 CFR 1910.1200(i)

4. FIRST AID MEASURES

- INGESTION:** Call a poison control center or doctor immediately for treatment advice. Have person rinse mouth with water. 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.
- SKIN CONTACT:** Take off contaminated clothing. Rinse skin immediately with plenty of soap and 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.
- INHALATION:** 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 treatment advice.

Most important symptoms and effects

Symptoms Irritating to eyes, skin, and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chronic Effects: Substances known to cause developmental toxicity in humans. Tumorigenic effects have been reported in experimental animals. Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse liver effects. May cause adverse kidney effects.

NOTE TO PHYSICIAN: There is no specific antidote available. Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, or foam

FLASH POINT: No flash point observed.

FLAMMABILITY LIMITS: UEL = 1.5%, LEL = 9.7%

SPECIAL EXPOSURE HAZARDS: Use self-contained breathing apparatus, and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

PRODUCTS OF COMBUSTION AND DECOMPOSITION: See Section 10 – Stability and Reactivity

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 – Exposure Controls/Personal Protection

Environmental Precautions: Product is highly toxic to aquatic invertebrates. Do not allow material to enter streams, sewers, or other waterways. This product is toxic to bees exposed to direct treatment or residues on blooming crops. Use for tree micro-injection only as post-bloom application.

Spill or leak procedures: Small Spills – Clean up spills immediately, observing precautions in Section 8. Absorb spill with absorbent material such as pet litter. After removal, flush contaminated area thoroughly with water containing a strong detergent. Sweep up and place in a chemical container. Seal the container and dispose of in accordance with all State and Federal regulations. Large Spills – Keep out of streams and domestic water supplies. Dike area to prevent contamination of local water sources.

7. HANDLING AND STORAGE

Store capsules in an upright position in a closed container. Store in a cool, dry place out of the reach of children. Do not contaminate water, food or feed by storage or disposal of capsules. Do not reuse micro-injection capsules or bottles. Dispose of in accordance with all State and Federal regulations. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory: Not normally needed.
Eye: Wear protective eyewear (e.g., goggles or full-face shield)
Ventilation: Use where adequate ventilation is available.

Other Protective Devices and Procedures: Wear chemical resistant gloves, such as barrier laminate or butyl rubber \geq 14 mils, neoprene rubber, or viton. Wear long-sleeved shirt and long pants, shoes plus socks.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Purple colored liquid
Odor:	Fruity fragrance
pH:	5.40 @ 25° C
Boiling Point:	178°C, 352°F
Melting Point:	Not determined
Flash Point:	Not determined
Evaporation Rate:	Slow (<0.01)
Flammability (Solid, Gas):	Liquid-not applicable
Upper Flammability Limits:	Not determined
Lower Flammability Limit:	Not determined
Vapor Pressure:	0.2 mm Hg @ 20°C, 68°F
Vapor Density:	2.7 (air = 1)
Viscosity:	5.5 cP @ 50 rpm (20°C, 68°F)
Specific Gravity:	1.109
Density:	1.107 g/mL
Solubility in Water:	Limited
Solubility in other solvents:	Not determined
Partition Coefficient:	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Kinematic Viscosity:	Not determined
Dynamic Viscosity:	Not Determined
Explosive Properties:	Not Determined
Oxidizing Properties:	Not Determined

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions

Conditions to avoid: Heat, sparks or open flame

Materials to avoid: Avoid oxidizing agents

Hazardous decomposition products: Thermal decomposition products may include, but are not limited to, carbon monoxide and carbon dioxide.

Hazardous polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Toxicological Data:	Data from laboratory studies on this product are summarized below:
Acute oral LD50:	Male and female rats > 2,000 mg/kg
Acute dermal LD50:	Male and female rats > 2,000 mg/kg
Primary eye irritation:	Mildly irritating to the rabbit eye
Primary skin irritation:	Classified as slightly irritating to rabbit skin.
Primary Dermal Irritation:	Index (PDII) = 1.2
Dermal sensitization:	Not a skin sensitizer

Repeated Dose Oral Toxicity (THFA only) NOAEL: 35 mg/kg male and female rats (RTECS: LU2450000)

12. ECOLOGICAL INFORMATION

Summary of effects: Imidacloprid Technical is highly toxic to aquatic invertebrate species. Imidacloprid Technical is highly toxic to bees.

Aquatic invertebrates: EC50 ≤ 1 ppm (Imidacloprid Technical)

13. DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR Part 261. For disposal of wastes generated during use or if the material as supplied becomes a waste, dispose as directed on the label. Do not reuse container. Do not dispose equipment wash water or rinseate into a natural drain or water body.

Observe all federal, state, and local laws concerning health and environment.

14. TRANSPORT INFORMATION

<u>UN NO</u>	None
<u>DOT Classification</u>	
PROPER SHIPPING NAME:	Pesticides, Liquid, Non-regulated
HAZARD CLASS or DIVISION:	Not regulated
PACKING GROUP:	N/A
<u>ICAO/IATA</u>	
PROPER SHIPPING NAME:	Pesticides, Liquid, Non-regulated
HAZARD CLASS or DIVISION:	Not regulated
IDENTIFICATION NUMBER:	N/A
<u>B/L Freight Classification</u>	Pesticides, Liquid, Non-regulated
<u>IMO</u>	
PROPER SHIPPING NAME:	Pesticides, Liquid, Non-regulated
HAZARD CLASS or DIVISION:	Not regulated
PACKING GROUP:	N/A

For further information relative to spills resulting from transportation incidents, refer to the latest Department of Transportation (DOT) Emergency Response Guidebook for Hazardous Materials Incidents.

15. REGULATORY INFORMATION

OSHA:	This product is considered hazardous under the criteria of the OSHA Hazard Communication Standard 29 CFR Part 1910.1200.
TSCA:	The product is exempt from TSCA regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.
CERCLA:	Reportable Quantity not applicable.
RCRA:	It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

EPA Pesticide Registration Number
EPA Statement

7946-16 and 7946-25

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 hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Following is the hazard information as required on the pesticide label:

Caution

Hazards to Humans and Domestic Animals:

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment:

Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves, such as polyethylene or butyl rubber or neoprene rubber or viton >14 mil
- Protective eyewear such as goggles, face shield, or safety glasses

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

User Safety Requirements

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards:

This pesticide is highly toxic to aquatic vertebrates. 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 dispose equipment washwaters or rinsate into a natural drain or water body.

Physical or Chemical Hazards:

Do not use or store near heat or open flame.

California Addendum (Proposition 65) Safe Drinking Water and Toxic Enforcement Act of 1986.

This product contains no chemical known to the State of California to cause cancer.

This product contains no chemical, known to the State of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

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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.