

MATERIAL SAFETY DATA SHEET1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: DINOCIDE™
EPA Registration No.: 7946-35

J. J. MAUGET COMPANY
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**In Case of Emergency, Call
INFOTRAC 1-800-535-5053**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient (% w/w): Dinotefuran (12%)
CAS Nos.: 165252-70-0
Chemical Name: N-methyl-N'-nitro-N"-[(tetrahydro-3-furanyl)methyl]guanidine
Chemical Class: Insecticide
EPA Signal Word: Caution

	OSHA <u>PEL</u>	ACGIH <u>TLV</u>	<u>% Ingredient</u>
Dinotefuran	N/A	N/A	12
n-Methylpyrrolidone	N/A	N/A	<30

3. HAZARDS IDENTIFICATION

Symptoms of Exposure: Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Routes of Entry: Inhalation, skin, eye contact and through ingestion.

Carcinogenicity: Not a carcinogen.

Mutagenicity: Not a mutagen.

Teratology (Birth defects): n-Methylpyrrolidone, a component of the DINOCIDE formulation, is listed by the State of California as a reproductive hazard under Proposition 65.

4. FIRST AID MEASURES

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.

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.

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.

HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact **INFOTRAC 1-800-535-5053** for emergency treatment information.

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

5. FIRE FIGHTING MEASURES

FLASH POINT: No flash point observed, but there was a Fire Point at 99.0°C.

METHOD USED: Pensky-Martens closed cup

FLAMMABILITY LIMITS: UEL = N/A, LEL = N/A

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

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 micro-injection capsules. Do not reuse micro-injection capsules. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue colored liquid

Odor: None

pH: 4.44 @ 25° C

Boiling Point: N/A

Melting Point: N/A

Flash Point: None

Evaporation Fate: Slow (<0.01)

Specific Gravity: 1.104

Solubility in Water: Miscible

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions

Conditions to avoid: None

Materials to avoid: None

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

Acute oral LD50: 416 mg/kg

Acute dermal LD50: 2,000 – 5,000 mg/kg (females); >5,000 mg/kg (males)

Primary eye irritation: Moderately irritating

Primary skin irritation: Slightly irritating

Dermal sensitization: Not a skin sensitizer

12. ECOLOGICAL INFORMATION

Summary of effects: Dinotefuran Technical is practically nontoxic to fish and practically nontoxic to highly toxic to aquatic invertebrate species. This pesticide is toxic to shrimp. Dinotefuran Technical is highly toxic to bees.

Fish Toxicity (Technical): great than 100 µg a.i./L
96 hour LC50, Rainbow Trout

Mysid Shrimp Toxicity (Technical): 0.79 µg a.i./L
96 hour LC50,

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.

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

14. TRANSPORT INFORMATION

DOT Classification

PROPER SHIPPING NAME: Pesticides, Liquid, Non-regulated
HAZARD CLASS or DIVISION: Not regulated
PACKING GROUP: N/A

ICAO/IATA

PROPER SHIPPING NAME: Pesticides, Liquid, Non-regulated
HAZARD CLASS or DIVISION: Not regulated
IDENTIFICATION NUMBER: N/A

B/L Freight Classification

Pesticides, Liquid, Non-regulated

IMO

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.

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

The following specific warnings are hereby given relative to substances that the State of California has identified as carcinogens and/or reproductive hazards under Proposition 65:

- WARNING: This product contains a chemical known to the State of California to cause cancer.
- WARNING: This product contains a chemical, n-Methylpyrrolidone (CAS No. 872-50-4), known to the State of California to cause birth defects or other reproductive harm.

SARA TITLE III HAZARD CATEGORY: For reporting under Section 311 & 312

This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an acute and delayed health hazard. Central Nervous System effects were seen in animals with the Technical ingredient.

SARA TITLE III HAZARD CATEGORY: For reporting under Section 313
This product contains n-Methylpyrrolidone (CAS No. 872-50-4).

16. OTHER INFORMATION

HAZARD RATINGS:	NFPA	HMIS
Health	1 (Slight)	1 (Slight)
Flammability	1 (Slight)	1 (Slight)
Reactivity	1 (Slight)	1 (Slight)

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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.