

## MATERIAL SAFETY DATA SHEET

Gowan Company Formulator:

P.O. Box 5569

Yuma, Arizona 85366-5569

(800) 883-1844

For 24-Hour Emergency Assistance (Spill, Leak, Fire, or

Exposure), Call CHEMTREC®:

Outside the U.S.: (703) 527-3887

(888) 478-0798 For *Medical* Emergency:

Inside the U.S.: (800) 424-9300

## 1. CHEMICAL IDENTIFICATION

**Product:** Scorpion® 35SL Insecticide

**CAUTION EPA Signal Word: EPA Registration No.:** 10163-317 Dinotefuran (35%) **Active Ingredient:** CAS No.: 165252-70-0

(RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl) guanidine **Chemical Name:** 

Neonicotinoid **Chemical Class:** 

## **COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Dinotefuran (35%)	N/A	N/A	N/A	No

Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

### 3. HAZARDS IDENTIFICATION

This pesticide is toxic to shrimp. 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 apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not dispose of equipment washwaters or rinsate into a natural drain or water body. Do not contaminate water when disposing of equipment washwaters or rinsate.

This product is toxic to bees. Do not apply this product if bees are actively foraging, unless the application is made in response to a public health emergency declared by appropriate State and Federal Authorities.

Dinotefuran and its degradate, MNG have the properties and characteristics associated with chemicals detected in ground water. The high water solubility of Dinotefuran, and its degradate, MNG, coupled with their very high mobility, and resistance to biodegradation indicates that these compounds have a strong potential to leach to the subsurface under certain conditions as a result of label use. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. Periodic monitoring of shallow groundwater in the use area is recommended.

### POTENTIAL HEALTH EFFECTS

### **Acute Toxicity (Primary Routes of Exposure)**

Signs and Symptoms of Systemic Effects: No significant signs of systemic toxicity were observed in animals exposed to very high oral, dermal or inhalation dosages of active ingredient.

Acute Eye Contact: This product can cause brief and/or minor eye irritation. The expected adverse health effects resulting from an exposure may include redness and possible swelling.

Acute Skin Contact: This product can cause brief and/or minor irritation. The expected adverse health effects resulting from an exposure may include redness and possibly some minor swelling. This product is slightly toxic when absorbed through the skin. This product is not expected to cause allergic skin reactions.

Acute Ingestion: This product is slightly toxic when ingested.

Acute Inhalation: This product is minimally toxic when inhaled.

Potentially Aggravated Medical Conditions: None known

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## 4. FIRST AID MEASURES

If on skin or clothing

If swallowed

If in eyes

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for further treatment advice.
- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Have person sip a glass of water if able to swallow.
- Do not give anything by mouth to an unconscious person.
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, and after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice.

#### **HOT LINE NUMBER**

When seeking medical attention, take the container label if at all possible. If not, take information which identifies the product, that is, the product names and registration numbers. In the U.S. – In case of emergency endangering health or the environment involving this product call 1-888-478-0798.

IN ALL CASES OF SUSPECTED POISONING, GET MEDICAL ATTENTION IMMEDIATELY.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** 94.8°C (closed cup)

**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, foam, dry chemical

**FIRE FIGHTING INSTRUCTIONS:** Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

This material is not expected to bum or explode in normal conditions, but will bum violently if involved in a fire. The active ingredient becomes self-reactive in high temperatures. Exposure to heat may promote violent decomposition.

**HAZARDOUS COMBUSTION PRODUCTS:** Normal combustion forms carbon dioxide, water vapor and may produce: Oxides of nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

### FOR SPILLS ON LAND:

**CONTAINMENT:** Remove all sources of ignition. Ventilate area of leak or spill. Clean-up personnel may require protection from inhalation of dust. Avoid runoff into storm sewers or other bodies of water.

**CLEANUP:** Clean up spill immediately in a manner that does not disperse dust into the air and place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

### FOR SPILLS IN WATER:

**CONTAINMENT:** This material will disperse or dissolve in water. Stop the source of the release. Contain and isolate to prevent further release into soil, surface water and ground water.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

### 7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.

**PESTICIDE STORAGE:** Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in a cool, dry place. Do not store diluted spray.

Keep away from all possible sources of ignition (sparks or flame). Avoid high temperatures exceeding 150°C. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring the material. Use explosion-proof electrical equipment. Take precautionary measures against static discharges.

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, chemical-resistant gloves made of any waterproof material such as polyethylene and polyvinyl chloride and shoes plus socks.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

**Color:** From pale yellow to red appearance

Odor: Amine odor

Melting Point: 107.5°C (active ingredient)

**Boiling Point:** Decomposed 208°C (active ingredient)

Density @ 20°C: 1.114 g/mL
Vapor Pressure: Not applicable

pH: 5.19 (1% solution)

Solubility: Miscible in water

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at normal ambient temperatures. **Incompatability:** Strong oxidizers, heat and sources of ignition.

Oxidation/Reduction

**Properties:** Not an oxidizing or reducing agent.

# 11. TOXICOLOGICAL INFORMATION

Oral Toxicity:The oral LD $_{50}$  in rats is >2000 mg/kg (Toxicity category III)Dermal Toxicity:The dermal LD $_{50}$  in rats is >2000 mg/kg (Toxicity Category III)Inhalation Toxicity:The 4-hour inhalation LC $_{50}$  is >2.02 mg/L (Toxicity Category III)

**Eye Irritation:** This product produced brief and/or minor eye irritation in the eyes of test animals

(Toxicity Category III)

**Skin Irritation:** This product is not a skin irritant in animals. **Skin Sensitization:** This product is not a skin sensitizer in animals.

## 12. ECOLOGICAL INFORMATION

**Avian Toxicity:** The active ingredient is practically non-toxic to moderately toxic to avian species.

Oral LD<sub>50</sub> quail: greater than 2000 mg/kg;

Dietary LC<sub>50</sub> Mallard duck: greater than 997.9 ppm;

Dietary LC<sub>50</sub> quail: greater than 1301 ppm; Reproduction quail: NOEL = 5000 ppm; Reproduction Mallard duck: NOEL = 2000 ppm

Aquatic Organism Toxicity: The active ingredient is practically nontoxic to fish and practically nontoxic to highly

toxic to aquatic invertebrate species.

LC<sub>50</sub> (96 hr) Bluegill Sunfish: greater than 100 mg/l; LC<sub>50</sub> (96 hr) Rainbow Trout: greater than 100 mg/l; LC<sub>50</sub> (96 hr) Common Carp: greater than 100 mg/l LC<sub>50</sub> (96 hr) Sheepshead Minnow: greater than 109 mg/l NOEC (early life stage) Rainbow Trout: greater than 10 mg/l; EC<sub>50</sub> (48 hr) Daphnia magna: greater than 1000 mg/l; NOEC (lifecycle) Daphnia magna: greater than 10 mgll;

LC<sub>50</sub> (96 hr) Mysid Shrimp: 0.79 mgll;

EC<sub>50</sub> (96 hr) Oyster Shell Deposition: greater than 141 mg/l.

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## 13. DISPOSAL METHODS

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. 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. After cleaning, if recycling is not available, 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.

### 14. TRANSPORT INFORMATION

#### **DOT Classification**

Not regulated

## **International Maritime Organization**

Not regulated

## **International Civil Aviation Organization**

Not regulated

### 15. REGULATORY INFORMATION

SARA Title III Classification

Section 302/304: Not listed

Section 311/312: Immediate (acute) health hazard

Delayed (chronic) health hazard

Section 313 chemical(s):

Proposition 65

CERCLA Reportable Quantity (RQ)

Not listed

Not listed

**RCRA Classification** 

Under 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.

TSCA Status Regulated by FIFRA

## 16. OTHER INFORMATION

NFPA Hazard Ratings			0	Least
Health:	1		1	Slight
Flammability	1		2	Moderate
Reactivity:	0		3	High
•			4	Severe

**Notice:** The information and recommendations contained herein are provided in good faith and 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.

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Gowan Company (800) 883-1844

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