



MATERIAL SAFETY DATA SHEET

Date stamp: 14-Nov-2013

MSDS Ref. No.: E95224

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Gemini™ 3.7 SC

Description: Herbicide

Company

Everris NA Inc.

P.O. Box 3310

Dublin, OH 43016

EPA Registration No.: 53883-325-58185

Product Number(s): E95224

24-HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC (U.S.): 1-800-424-9300

CHEMTREC (International): 1-703-527-3887

Non-Emergency Calls: 1-800-492-8255

2. HAZARD(S) IDENTIFICATION

OSHA Regulatory Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Labelling

Signal Word:

CAUTION

Hazard Statements:

Keep out of the reach of children.

Precautionary Statements:

May be harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

Potential Health Effects

Eye Contact:

Contact with eyes may cause irritation.

Skin Contact:

May cause skin irritation.

Ingestion:

May be harmful if swallowed.

inhalation:

May be harmful if inhaled.

Principle routes of exposure:

respiratory system

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS-No | Weight % |
|---|------------|----------|
| Prodimine | 29091-21-2 | 15-30 |
| N-(3-(1-Ethyl-1-methylpropyl)-1,2-oxazol-5-yl)-2,6-dimethoxybenzamide | 82558-50-7 | 15-30 |
| Propylene glycol | 57-55-6 | 5 - 10 |

4. FIRST-AID MEASURES

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.

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.

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.

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 further treatment advice.

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Suitable extinguishing media: | Water fog, CO ₂ , Foam, dry chemical. |
| Explosion potential: | Pesticide fires have potential to emit hazardous gases such as carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride, and nitrogen oxides. |
| Fire fighting procedures: | Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing. |
| Special Protective Equipment for Firefighters: | In the event of fire, wear self-contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|---|
| Personal Precautions: | Use personal protective equipment. Do not breathe vapors/dust. |
| Environmental Precautions: | This product is toxic to fish. Keep out of lakes, streams or ponds. Ensure that the disposal is in compliance with federal requirements and state or local regulations. |
| Methods for containment: | Absorb with inert material and dispose of in accordance with label instructions. |
| Methods for Cleanup: | Scrub area with a hard water detergent. Remove any contaminated soil. Place in closed, labeled containers and store in a safe place until disposed. Do not contaminate water while cleaning equipment or disposing of wastes. |

7. HANDLING AND STORAGE

Handling: Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. Do not contaminate water while cleaning equipment. this product is toxic to fish. Keep out of lakes, streams or ponds. Use proper protective equipment to minimize exposure.

Storage: Store in original container in a safe place. Store away from feed or food stuffs. Store material in a well-ventilated, secure area out of reach of children and domestic animals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Ingredients | CAS-No | ACGIH: | OSHA: |
|---|------------|------------|------------|
| Prodiamine | 29091-21-2 | Not Listed | Not Listed |
| N-(3-(1-Ethyl-1-methylpropyl)-1,2-oxazol-5-yl)-2,6-dimethoxybenzamide | 82558-50-7 | Not Listed | Not Listed |
| Propylene glycol | 57-55-6 | Not Listed | Not Listed |

Engineering Controls Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

Personal protective equipment**Eye/face Protection**

Protective eyewear or chemical safety glasses with side shields or chemical goggles when working in non-ventilated spaces.

Skin and Body Protection:

Where contact is likely, wear chemical-resistant gloves.

Respiratory Protection:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

General hygiene considerations:

Wash hands before breaks and immediately after handling the product. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. After handling this product, immediately remove PPE. Wash yourself thoroughly and change into clean clothes.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------|---------------------------------------|--------------------|----------------------|
| Color: | yellow | Appearance: | liquid |
| Odor: | mild | pH: | 7.08 (1% dispersion) |
| Specific gravity: | 1.138 g/cm ³ at 24 Celsius | Viscosity: | Non-Newtonian Fluid |

10. STABILITY AND REACTIVITY

| | |
|-----------------------------|---------------------------------|
| Chemically Stable: | Stable under normal conditions. |
| Conditions to Avoid: | Extreme heat. |

Materials to avoid Strong oxidizing agents. Chlorinated compounds.
Hazardous Decomposition Products: May release irritating and toxic gases due to thermal decomposition.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50/oral: >5000 mg/kg

LD50/dermal: >5050 mg/kg

LC50/inhalation: >2.19 mg/L/4 hr.

Eye effects: Mild eye irritation

Skin effects: Non-irritating to the skin

Sensitization: No sensitization

Chronic Toxicity

Carcinogenic effects: Prodiamine: Benign thyroid tumors (rat). None observed (mouse). Isoxaben: considered to be slightly oncogenic.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: Harmful by inhalation.

Mutagenic effects: Isoxaben: Has caused birth defects in laboratory animals at doses toxic to the mother. Based on animal studies, isoxaben causes genetic damage and birth defects. There are data that support the finding that isoxaben has potential to have cancer-causing effects on animals.

Reproductive effects: Prodiamine: Fetal toxicity at high dose levels (rat); development and material toxicity observed at 1 g/kg/day. Isoxaben: Unknown developmental effects. Has been shown to interfere with reproduction in animals.

other information: Chronic/Subchronic Toxicity: Prodiamine: Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high dose levels (rats); decreased body weight gains.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Practically non-toxic to birds and bees.

Persistence and degradability: Does not bioaccumulate. Persistent in soil.

Mobility: Low solubility in water. Sinks in water. Immobile in soil.

Aquatic toxicity: Highly toxic to fish and invertebrates.

Additional ecological information: Environmental Hazards: At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. 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 EPA.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Read and follow label instructions.

Other Information: Read label for container handling procedure

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT (Land) Not DOT regulated

IATA (Air) Not regulated

IMO/IMDG (Vessel) UN3077, Environmentally Hazardous Substances, Solid, N.O.S (prodiamine), 9, PGIII, Marine Pollutant

15. REGULATORY INFORMATION

General information Contact local authorities for disposal of large quantities of product.

16. OTHER INFORMATION

NFPA: **Health:** 1 **Flammability:** 1 **Reactivity:** 0

HMIS: **Health:** 1 **Flammability:** 1 **Reactivity:** 0

Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe

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