

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

LOVELAND PRODUCTS, INC.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-800-301-7976
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: DYNA-SHIELD® METALAXYL FUNGICIDE
CHEMICAL NAME: Metalaxyl: N-(2,6-dimethylphenyl)-N-(methoxyacetyl)alanine methyl ester]
CHEMICAL FAMILY: Fungicide
EPA REG. NO.: 34704-942
MSDS Number: 000942-06-LPI

MSDS Revisions: New

Date of Issue: 10/10/06

Supersedes: New

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – WARNING - AVISO – Si usted no entiende la etiqueta, busque a alguien para que se la explique austed en detalle. (If you do not understand the label, find someone to explain it to you in detail.) Causes skin irritation. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Do not get on skin or on clothing. Avoid contact with eyes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

This product is a light tan to brown liquid with faint odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS

| <u>Chemical Ingredients:</u> | <u>Percentage by Weight:</u> | <u>CAS No.</u> | <u>TLV (Units)</u> |
|------------------------------|------------------------------|----------------|--------------------|
| Metalaxyl | 28.35 | 57837-19-1 | not listed |
| Attapulgate clay | 0.40 | 12174-11-7 | not listed |
| Inert Ingredients | 71.25 | | |

4. FIRST AID MEASURES

If on skin or clothing: Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
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 eye. Call a poison control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL: **1-800-301-7976**. Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): >200.1°F / >93.8°C
FLAMMABLE LIMITS (LFL & UFL): None established
EXTINGUISHING MEDIA: Carbon dioxide (CO₂), dry chemical, or foam.
HAZARDOUS COMBUSTION PRODUCTS: heating or fire can release toxic gases.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area.
UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire and cool the containers, contain run-off by diking to prevent contamination of water supplies. Containers in fire may burst or explode from excessive heat.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spill immediately. Cover entire spill with absorbent material such as sand, diatomaceous earth, or other compatible absorbent material into compatible disposal containers. Scrub the spill area with water and detergent. Pick up wash liquid with additional absorbent and place into disposal container. Once all material is cleaned up and placed in a disposal container, seal the container(s) and handle in an approved manner. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: 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. 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.

STORAGE: Store in a cool, dry location. Do not store in direct hot sunlight. Do not store above 90°F for prolonged periods of time. After prolonged storage in intense cold, allow product to return to approximately 75°F before using. Do not contaminate water, food or feed by storage or disposal.

Personal Protective Equipment: Applicators and other handlers must wear: coveralls over short-sleeved shirt and short pants, socks and chemical-resistant footwear and chemical-resistant gloves (such as nitrile, butyl, neoprene, and/or barrier laminate). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Maintain exposure levels below exposure limits through the use of general and local exhaust ventilation. Use product in accordance with product labeling and with the requirements listed in the Worker Protection Standard (WPS), 40CFR Part 170.

RESPIRATORY PROTECTION: Not normally required, if vapors or mists exceed acceptable levels, wear a NIOSH approved respirator.

EYE PROTECTION: Chemical splash goggles.

SKIN PROTECTION: Wear protective clothing: coveralls over short-sleeved shirt and short pants, socks and chemical-resistant footwear. Wear rubber or chemical-resistant gloves.

| | OSHA PEL 8 hr TWA | ACGIH TLVs |
|-------------|-------------------|------------|
| For product | not listed | not listed |

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Light tan to brown liquid with faint odor.

SPECIFIC GRAVITY (Water = 1): 1.08 – 1.10 g/ml

VAPOR PRESSURE: Not established

PERCENT VOLATILE (by volume): Not established

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

BULK DENSITY: 9.05 – 9.20 lbs/gal.

BOILING POINT: Not established

EVAPORATION RATE: Not established

SOLUBILITY: Miscible

pH: 5.0 – 8.0 (undiluted)

10. STABILITY AND REACTIVITY

STABILITY: Stable.

INCOMPATIBILITY: Strong acids, strong bases, and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Extreme heat.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (male rat): >2,900 mg/kg

Eye Irritation (rabbit): Slight irritant

Inhalation LC₅₀ (rat): >21.94 mg/L (1 hr).

Carcinogenic Potential: None listed in OSHA, NTP, or ACGIH. IARC lists Attapulgitic clay as 2B: Possibly Carcinogenic to Humans and as 3: Unclassifiable as to Carcinogenicity in Humans, depending upon exposure circumstances.

Acute Dermal LD₅₀ (rabbit): >2,000 mg/kg

Skin Irritation (rabbit): Moderate irritant

Skin Sensitization (guinea pig): Not a sensitizer

12. ECOLOGICAL INFORMATION

Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

13. DISPOSAL CONSIDERATIONS

Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by storage or disposal, or by cleaning equipment.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT

U.S. Surface Freight Classification: INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS; NOI; OTHER THAN POISON (NMFC 102120; CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

| | | | |
|--|----------------|------------|----------------|
| NFPA & HMIS Hazard Ratings: | NFPA | | HMIS |
| | 2 Health | 0 Least | 2 Health |
| | 1 Flammability | 1 Slight | 1 Flammability |
| | 0 Instability | 2 Moderate | 0 Reactivity |
| | | 3 High | H PPE |
| | | 4 Severe | |

SARA Hazard Notification/Reporting

| | | | | | | |
|--|-----------|--------------|----------|--------------|----------------------------|--------------|
| SARA Title III Hazard Category: | Immediate | <u> N </u> | Fire | <u> N </u> | Sudden Release of Pressure | <u> N </u> |
| | Delayed | <u> N </u> | Reactive | <u> N </u> | | |

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed

RCRA Waste Code: Not listed

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

16. OTHER INFORMATION

MSDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

This is a seed treatment product and contains 2.65 pounds Metalaxyl per U.S. Gallon.

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