

SAFETY DATA SHEET

DYNA-SHIELD TEEMER™

DATE OF ISSUE: 07/14/17 SUPERSEDES: NEW

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

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER: EPA REGISTRATION NO. 34704-1108

TRADE NAME: DYNA-SHIELD TEEMER™ SEED TREATMENT FUNGICIDE

SDS REVISIONS: NEW

1.2 RECOMMENDED USE: FUNGICIDE FOR SEED TREATMENT

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24 Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565 - Product Information: 1-888-574-2878 (LPI-CUST) U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Acute Toxicity – Oral	Category 4	H302
Acute Toxicity – Inhalation	Category 4	H332
Skin Corrosion/Irritation	Category 2	H315
Eye Damage/Irritation	Category 2B	H320
STOT (Repeated Exposure)	Category 2	H373

Environmental Hazards

Toxic to aquatic life. Category 2 H401
Toxic to aquatic life with long lasting effects. Category 2 H411

2.2 Label elements



Signal word: WARNING

Hazard Statement: H302 – Harmful if swallowed. H332 – Harmful if inhaled. H315 – Causes skin irritation. H320 – Causes eye irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 – Toxic to aquatic life with long lasting effects.

Precautionary

Statement: P264 – Wash thoroughly after handling.

(Prevention): P270 – Do not eat, drink or smoke when using this product.
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 – Use only outdoors or in a well-ventilated area.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P260 – Do not breathe dust/fume/gas/mist/vapors/spray.

Precautionary

Statement: P301+P312 – IF SWALLOWED: Call a poison center/doctor/physician if you feel unwell.

(Response): P330 – Rinse mouth.

 ${\sf P304+P340-IF\ INHALED} : Remove\ person\ to\ fresh\ air\ and\ keep\ comfortable\ for\ breathing.$

P312 - Call a poison center/doctor/physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337+P313 – If eye irritation persists: Get medical advice/attention.

P314 - Get medical advice/attention if you fee unwell.

Precautionary Statement:

(Storage): Not applicable or required.

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Precautionary

Statement: P501 – Dispose of contents/container in accordance with local, state and federal regulations.

(Disposal):

2.3 Other hazards

None known

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

 Chemical Name:
 CAS No.
 Concentration [%]

 Thiophanate-methyl
 23564-05-8
 46.20

 Propulate a fixed
 57.55.6
 57.6.2

Propylene glycol 57-55-6 5.7 – 6.3
*Other ingredients 47.50 - 48.10

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

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.

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 the poison control center or doctor. Do not give anything by mouth to an

unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably

mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

If on skin or clothing: Take of contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or

doctor for treatment advice.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Eyes: Causes eye irritation.

Oral: Harmful if swallowed. Skin: Causes skin irritation. Inhalation: Harmful if inhaled.

4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565

Have product container or label with you when calling a poison control center, or going for treatment.

NOTES TO PHYSICIAN: Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

^{*}Ingredients not specifically listed are non-hazardous and are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)

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5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO₂), alcohol foam, foam,

water spray or fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting:

Oxides of nitrogen and oxides of carbon may be formed in a fire situation.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires

involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate

fire and deny unnecessary entry.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation.

Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below

the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in

neighboring areas. Do not contaminate water by disposing of equipment washwater.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Remove residual contamination.

Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe 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.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Store in original container only in a dry, temperature controlled, secure place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) TLVs

Components	Type	Value
No listings	TLV	
=	TI \/	

U.S. Workplace Exposure Level (OSHA) PELs

Components	Type	Value
No listings	TLV	
<u>-</u>	TI \/	

Biological limit values

ACGIH Biological Exposure Indices

Addit Biological Exposare malocs					
Components	Value	Specimen			

No listings



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8.2 EXPOSURE CONTROLS:

Engineering Measures

Note: Persons involved in bagging treated seed, sewing or moving bags of treated seed, or cleaning up bagging areas or seed treatment equipment are pesticide handlers and must wear the PPE require below.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Long-sleeved shirt and long pants. Chemical-resistant gloves for all mixers and loaders and for applicators using

hand-held equipment. Chemical-resistant apron for mixers, loaders and other handlers exposed to the concentrate.

Shoes plus socks.

Respiratory Protection: Not normally required, if vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved dust mist filtering respirator with any N, R, P, or HE filter. If respirators are used, a program should be in place to assure compliance

with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if

exposure concentrations are unknown.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Opaque liquid

ODOR: No data available.
ODOR THRESHOLD: No data available.
COLOR: No data available.

pH: 5.08

MELTING POINT / FREEZING POINT: No data available

BOILING POINT: No data available FLASH POINT: No data available. FLAMMABILITY (solid, gas): No data available.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: No data available.

SOLUBILITY: Dispersible.

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available.

VISCOSITY: (kinematic): 275.358 cSt @ 20 °C | 146.736 cSt @ 40 °C

SPECIFIC GRAVITY (Water = 1): 1.208 g/ml

DENSITY: 10.08 lbs/gal | 1.21 kg/L

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.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available. Will not polymerize.

10.4 CONDITIONS TO AVOID

Excessive heat. Do not store near heat or open flame.

10.5 INCOMPATIBILE MATERIALS

Strong oxidizing agents: bases and acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon, nitrogen and sulfur or other asphyxiants may be formed from incomplete combustion.



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11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Ingestion. Skin Contact. Inhalation

LC₅₀ (rat): > 2.05 mg/L (4 HR)
LD₅₀ Oral (female rat): 1,750 mg/kg
LD₅₀ Dermal (rat): > 5,000 mg/kg
Acute Toxicity Estimates: No data available
Skin Irritation (rabbit): Slightly irritating.
Eye Irritation (rabbit): Mildly irritating.

Specific Target Organ Toxicity: Repeated overexposure may cause mild anemia and affect the liver and thyroid.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer Carcinogenicity: No data available.

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

The product is toxic to fresh water and estuarine/marine fish. Thiophanate-methyl is toxic to aquatic organisms.

Ecotoxicological Data

	Species	Test Results	
Thiophanate-methyl	Bluegill	>41 ppm – 96-hour LC50	
	Daphnia Magna	5.4 ppm – 48-hour EC ₅₀	
	Rainbow trout	8.3 ppm – 96-hour LC ₅₀	
	Honey bee	>100 - μ/bee – 48-hour LD ₅₀	
	Mysid	1.1 ppm – 96-hour LC ₅₀	

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available

12.4 MOBILITY IN SOIL

No data available

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate if a violation of Federal law. If these wastes cannot be used according to instructions on product label, contact your State Pesticide or Environmental Control Agency for guidance. Do not contaminate water, food or feed by storage or disposal.

14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT

DOT Shipping Description: 2 GALLONS AND LESS: NOT REGULATED BY DOT.

DOT Shipping Description: GREATER THAN 2 GALLONS: RQ UN3082, ENVIRONMENTALLY HAZARDOUS SIUBSTANCE, LIQUID, N.O.S.

(THIOPHANATE-METHYL), 9, III ERG GUIDE 171

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



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15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA

Health 0 Health Least Flammability Slight 0 Flammability Instability 2 0 Reactivity Moderate 3 High В PPE

HMIS

4 Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y_ Fire N_ Sudden Release of Pressure N_

Delayed Y Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Thiophanate-methyl (CAS: 23564-05-8) 10 pounds.

SARA, Title III, Section 313: Thiophanate-methyl (CAS: 23564-05-8) 46.20%.

RCRA Waste Code: U409 (Thiophanate-methyl).

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

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Causes moderate eye irritation.
Harmful if swallowed or inhaled.
Harmful if absorbed through skin.
Avoid breathing spray mist.
Avoid contact with eyes, skin or clothing.

16 OTHER INFORMATION

SDS STATUS: New.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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