

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • Howard Johnson's T-Methyl Granular, Hummert's Dyna Green T-Methyl Granular Systemic Fungicide for Turf & Ornamentals

Synonyms • EPA Reg. No.: 53883-183-32802; FertSSMut

Product Code • FertSSMut

Product Description • Variable colored granules.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Fungicide for turf and ornamental plants.

Restrictions on use • Avoid contact with eyes, skin or clothing. Keep out of the reach of children and domestic animals.

Details of the supplier of the safety data sheet

Manufacturer • Howard Johnson's Enterprises, Inc.
9675 S. 60th Street
Franklin, WI 53132
United States
www.hjefertilizer.com

Telephone (General) • (414) 394-3590 - 8:30am - 5:00pm CST

Emergency telephone number

Manufacturer • 1-800-424-9300 - CHEMTREC - Transportation and Non-Transportation related emergencies

Manufacturer • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012
- Skin Sensitization 1
 - Germ Cell Mutagenicity 2

Label elements

OSHA HCS 2012

WARNING

- Hazard statements**
- May cause an allergic skin reaction
 - Suspected of causing genetic defects.

Precautionary statements

- Prevention**
- Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- IF ON SKIN: Wash with plenty of soap and water.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Wash contaminated clothing before reuse.
 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal**
- Store locked up.
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

- OSHA HCS 2012
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

| Composition | | |
|--|----------------|---------|
| Chemical Name | Identifiers | % |
| Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis[3-thioallophanate]) | CAS:23564-05-8 | 2.08% |
| Other ingredients | NDA | Balance |

Section 4: First-Aid Measures**Description of first aid measures****Inhalation**

-

IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

- IF SWALLOWED: Rinse mouth.

Most important symptoms and effects, both acute and delayed

- An allergic skin reaction may occur in individuals with a sensitivity to Thiophanate-methyl. Suspected of causing genetic defects. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

- LARGE FIRE: Water spray, fog or regular foam.
- SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media

- High pressure spray.

Firefighting Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Do not walk through spilled material.
- Keep unauthorized personnel away.
- Ventilate closed spaces before entering.
- Do not allow fire fighting water to escape into waterways or sewers.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- None known.

Hazardous Combustion Products

- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not walk through spilled material. Avoid contact with skin, eyes, and clothing. Use appropriate Personal Protective Equipment (PPE).

Emergency Procedures

- Keep unauthorized personnel away. Stay upwind.

Environmental precautions

- Do not allow runoff into water, storm drains or drainage ditches.

Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Sweep up material and place in suitable container for disposal. Cover with plastic sheet to prevent spreading. Do not flush to sewer or allow to enter waterways.

Section 7 - Handling and Storage

Precautions for safe handling

- Handling**
- Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid release to the environment. Keep away from fire - No Smoking.

Conditions for safe storage, including any incompatibilities

- Storage**
- Keep container/package tightly closed in a cool, well-ventilated place. Avoid humid or wet conditions. Store locked up.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure controls

- Engineering Measures/Controls**
- No data available

Personal Protective Equipment

Pictograms



Respiratory

- If prolonged exposure is anticipated, it is recommended for handlers to wear an approved MSHA/NIOSH dust mask N-95. Not required with normal use.

Eye/Face

- Wear safety glasses.

Hands

- Wear appropriate gloves.

Skin/Body

- Use full body suit such as Tyvek or Tychem suit is recommended.

Environmental Exposure Controls

- Avoid contaminating waterways and sewers.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

| Material Description | | | |
|-----------------------------------|-------------------|------------------------------|--------------------------------|
| Physical Form | Solid | Appearance/Description | Variable colored granules. |
| Color | Multi-colored | Odor | No data available. |
| Particulate Type | No data available | Odor Threshold | No data available |
| General Properties | | | |
| Boiling Point | No data available | Melting Point/Freezing Point | No data available |
| Decomposition Temperature | No data available | pH | Not relevant |
| Specific Gravity/Relative Density | No data available | Bulk Density | 45 to 80 lb(s)/ft ³ |
| Water Solubility | No data available | Viscosity | Not relevant |

Volatility

| | | | |
|------------------|-------------------|---------------|-------------------|
| Vapor Pressure | No data available | Vapor Density | No data available |
| Evaporation Rate | No data available | VOC (Wt.) | No data available |

Flammability

| | | | |
|---------------------------|-------------------|--------------|-------------------|
| Flash Point | No data available | UEL | No data available |
| LEL | No data available | Autoignition | No data available |
| Flammability (solid, gas) | No data available | | |

Environmental

| | | | |
|-------------------------------------|-------------------|--|--|
| Octanol/Water Partition coefficient | No data available | | |
|-------------------------------------|-------------------|--|--|

Section 10: Stability and Reactivity**Reactivity**

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Moisture and humid conditions.

Incompatible materials

- Strong oxidizers.

Hazardous decomposition products

- May decompose upon heating to produce toxic vapors/gases.

Section 11 - Toxicological Information**Information on toxicological effects**

| Components | | |
|---|------------|---|
| Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis [3-thioallophanate]) (2.08%) | 23564-05-8 | Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >1.7 mg/L 4 Hour(s); Skin-Rabbit LD50 • >2000 mg/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Essentially non-irritating |

| GHS Properties | Classification |
|--------------------------------------|---|
| Acute toxicity | OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met |
| Skin corrosion/Irritation | OSHA HCS 2012 • Classification criteria not met |
| Serious eye damage/Irritation | OSHA HCS 2012 • Classification criteria not met |
| Skin sensitization | OSHA HCS 2012 • Skin Sensitizer 1 |
| Respiratory sensitization | OSHA HCS 2012 • Classification criteria not met |
| Aspiration Hazard | OSHA HCS 2012 • Classification criteria not met |

| | |
|----------------------------------|---|
| Carcinogenicity | OSHA HCS 2012 • Classification criteria not met |
| Germ Cell Mutagenicity | OSHA HCS 2012 • Germ Cell Mutagenicity 2 |
| Toxicity for Reproduction | OSHA HCS 2012 • Classification criteria not met |
| STOT-SE | OSHA HCS 2012 • Classification criteria not met |
| STOT-RE | OSHA HCS 2012 • Classification criteria not met |

Potential Health Effects

Inhalation

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Skin

- Acute (Immediate)** • May cause an allergic skin reaction in individuals with a sensitivity to Thiophanate-methyl.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Ingestion

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Mutagenic Effects

- Thiophanate-methyl may cause mutagenic effects.

Carcinogenic Effects

- Thiophanate-methyl is not classified as a carcinogen by NTP, IARC and OSHA. No component in this product present at 0.1% or greater is listed by IARC, OSHA or NTP.

Reproductive Effects

- Not classified.

Section 12 - Ecological Information

Toxicity

| Components | | |
|--|------------|---|
| Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis[3-thioallophanate]) (2.08%) | 23564-05-8 | Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Bluegill</i> >41 mg/L [Acute] 96 Hour(s) LC50 <i>Rainbow Trout</i> 8.3 mg/L [Acute] Aquatic Toxicity-Crustacea: 96 Hour(s) LC50 <i>Mysid shrimp</i> 1.1 mg/L [Acute] Aquatic Toxicity-Algae and Other Aquatic Plant(s): 48 Hour(s) EC50 <i>Daphnia</i> 5.4 mg/L [Acute] |

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects

- No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

| | UN number | UN proper shipping name | Transport hazard class (es) | Packing group | Environmental hazards |
|-----------|----------------|-------------------------|-----------------------------|----------------|---------------------------------|
| DOT | Not Applicable | Not Regulated | Not Applicable | Not Applicable | RQ = Thiophanate-methyl 10 lbs. |
| IMO/IMDG | Not Applicable | Not Regulated | Not Applicable | Not Applicable | Not Applicable |
| IATA/ICAO | Not Applicable | Not Regulated | Not Applicable | Not Applicable | Not Applicable |

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

- DOT** • Environmental Hazards: RQ (Thiophanate-methyl = 10 lb).
- IMO/IMDG** • No data available
- IATA/ICAO** • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, SARA Title III Section 313

FIFRA – Pesticide Labeling

This material 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. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • KEEP OUT OF REACH OF CHILDREN.

Hazards to Humans and Domestic Animals

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with

skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco.

First Aid •

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

IF ON SKIN OR CLOTHING: 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.

Environmental Hazards •

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 when disposing of equipment washwater or rinsate.

| Inventory | | |
|---|------------|------|
| Component | CAS | TSCA |
| Thiophanate-methyl (dimethyl 4,4'-oxydiphenylenebis[3-thioallophanate]) | 23564-05-8 | No |

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

| | | |
|---|------------|----------------------------------|
| • Thiophanate-methyl (dimethyl 4,4'-oxydiphenylenebis[3-thioallophanate]) | 23564-05-8 | 10 lb final RQ; 4.54 kg final RQ |
|---|------------|----------------------------------|

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

| | | |
|---|------------|--------------------------------|
| • Thiophanate-methyl (dimethyl 4,4'-oxydiphenylenebis[3-thioallophanate]) | 23564-05-8 | 1.0 % de minimis concentration |
|---|------------|--------------------------------|

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

| | | |
|---|------------|-------------------|
| • Thiophanate-methyl (dimethyl 4,4'-oxydiphenylenebis[3-thioallophanate]) | 23564-05-8 | waste number U409 |
|---|------------|-------------------|

Section 16 - Other Information

Revision Date

- 29/November/2016

Last Revision Date

- 29/November/2016

Preparation Date

- 29/November/2016

Disclaimer/Statement of Liability

- The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.