

Select Source, LLC

MATERIAL SAFETY DATA SHEET

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TM 4.5 Select
EPA Reg. No. 66330-293-86869

Company:
Select Source, LLC.
4505 Boonville-New Harmony Rd.
Evansville, IN 47725

Emergency Contact:
CHEMTREC: 800-424-9300
National Poison Information Center: 800-222-1222

Chemical Name: Thiophanate-methyl
(dimethyl[1,2-phenylene)-bis(iminocarbonothioyl)]bis(carbamate))
Molecular Formula: C₁₂H₁₄N₄O₄S₂
Chemical Family: Carbamate fungicide
Product Use: Fungicide

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

Active Ingredient	CAS Number	Content (w/w)	OSHA PEL	ACIGH TLV	NTP/IARC/OSHA (Carcinogen)	California Proposition 65
Thiophanate-methyl	23564-05-8	46.2%	Not listed	Not listed	Not listed	Listed, Reproductive toxin

SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

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

POTENTIAL HEALTH HAZARDS:

EYE - Mildly irritating to the eyes. Degree of injury will depend on the amount of material that gets into eye and the speed and thoroughness of the first aid treatment.

SKIN - Prolonged or repeated skin contact may cause irritation.

INHALATION - Spray mists or dust concentrations may be harmful if inhaled.

INGESTATION - May be harmful if swallowed.

POTENTIAL PHYSICAL HAZARDS: Listed on California Proposition 65 as a reproductive toxin.

ENVIRONMENTAL HAZARDS: Toxic to wildlife and domestic animals.

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SECTION 4 - FIRST AID MEASURES

IF INHALED:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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.
IF IN EYES:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: Call PROSAR at 1-866-303-6952 or 1-651-632-8946 if calling from outside the U.S.
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC at 1-800-434-9300 or 1-703-527-3887 if calling from outside of the U.S.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT: Not applicable

FLAMMABLE LIMITS (LFL-UFL): Not applicable

EXTINGUISHING MEDIA: Recommended for large fires: foam or water spray.

Recommended for small fires: dry chemical or carbon dioxide.

FIRE FIGHTING INSTRUCTIONS: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. Evacuate area and fight fire upwind from a safe distance to avoid hazardous decomposition products. Dike area to prevent runoff and contamination of water sources.

HAZARDOUS COMBUSTION PRODUCTS: May produce oxides of carbon, nitrogen and sulfur.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Wear long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant aprons; and shoes plus socks. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet; remove clothing/PPE immediately if pesticide gets inside then wash thoroughly and put on clean clothing. Users should 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.

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STORAGE: Store in the original container in a dry area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed in section 13.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION – Wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

CLOTHING – Wear long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant aprons; and shoes plus socks.

RESPIRATOR – Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

ADDITIONAL PROTECTIVE MEASURES: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Off white, viscous liquid.

ODOR: Faint sulfur odor.

DENSITY: 1.12 g/ml (9.35 lb/gal)

pH: 5.5 - 6.5

VAPOR PRESSURE: Not determined.

WATER SOLUBILITY: Dispersible.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal handling and storage conditions.

CONDITIONS TO AVOID: Excessive heat. Do not store near heat or flame.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, bases and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, sulfur and carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD50 (rat): >5,000 mg/Kg

Dermal LD50 (rat): >2,000 mg/Kg

Inhalation LC50 (rat): >10.0 mg/L

Eye Irritation (rabbit): Mildly irritating

Skin Irritation (rabbit): Slightly irritating

Sensitization (guinea pig): Non-sensitizer

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

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CARCINOGEN STATUS:

OSHA - Not listed.
NTP - Not listed.
IARC - Not listed.

MUTAGENIC DATA: No evidence during in vivo or in vitro studies.

ADDITIONAL DATA: Not known to exhibit reproductive or teratogenic (birth defect) effects.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: 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.

FISH TOXICITY: (Technical)

96 hour LC50, Rainbow trout: 7.8 ug/L

AVIAN TOXICITY: (Technical)

Oral LD50, Bobwhite quail: >5,000 mg/Kg

BEE TOXICITY: Non-toxic.

SECTION 13 - DISPOSAL CONSIDERATIONS

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse according to product label instructions. Offer for recycling, if available or 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.

SECTION 14 - TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: Agricultural Fungicide, Liquid, N.O.I.B.N.

DOT HAZARD CLASS: N/A

UN NUMBER: N/A

DOT PACKING GROUP: N/A

SECTION 15 - REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD STATUS: Regulated

SARA TITLE III STATUS:

Section 302 Extremely Hazardous Substance - No

Section 311/312 Hazard Categories - Immediate

Section 313 Toxic Chemicals - Thiophanate Methyl

CERCLA REPORTABLE QUANTITY: Thiophanate Methyl (CAS No. 23564-05-8) 10 pounds

RCRA Waste Code: Thiophanate Methyl (CAS No. 23564-05-8) U409

CALIFORNIA PROPOSITION 65 STATUS: Listed (Reproductive toxin)

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SECTION 16 - OTHER INFORMATION

NFPA HAZARD RATINGS

HEALTH:	1	0: MINIMAL
FLAMABILITY:	1	1: SLIGHT
REACTIVITY:	0	2: MODERATE
		3: HIGH
		4: SEVERE

MSDS DATE: 11/15/2011

DISCLAIMER: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. The information contained herein is given in good faith and is believed to be correct, but no warrant, express or implied is made. Consult Select Source LLC for further information.