

MATERIAL SAFETY DATA SHEET

TM 4.5F Select

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1. IDENTIFICATION

Product name: **TM 4.5F Select**
 Chemical name of active ingredient(s): Thiophanate-methyl: [Dimethyl (1,2-phenylene) bis (iminocarbonothioyl)] bis [carbamate]
 Registrant/Manufacturer: Prime Source, LLC
 4609 E. Booneville-New Harmony Road
 Evansville, IN 47725
 EPA Registration Number: 89442-14
 For fire, spill, and/or leak emergencies, contact NPIC: National Pesticides Information Center (NPIC) 800-858-7378
 For medical emergencies and health and safety inquiries, contact: Poison Control Center 800-222-1222

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Thiophanate-methyl NA=Not available	23564-05-8	46.2	NA	NA	NA	NA

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES:

Appearance: Off-white liquid
 Odor: Characteristic odor

EMERGENCY OVERVIEW: CAUTION Harmful if swallowed, absorbed through skin, or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PRIMARY ROUTES OF EXPOSURE: Skin and eye contact, ingestion and inhalation.

4. FIRST AID MEASURES

FIRST AID	
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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of soap and water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
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 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.

Have the product label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time (NPIC Website: www.npic.orst.edu). Outside of these times call your poison control center at 1-800-222-1222.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLAMMABLE LIMITS: LFL/UFL: Not applicable

EXTINGUISHING MEDIA: Water, foam, CO₂, dry chemical, earth or sand.

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.

SPECIAL FIRE-FIGHTING PROCEDURES: None known.

6. ACCIDENTAL RELEASE MEASURES

If spilled during storage or handling, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal instruction below.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation.

PRECAUTIONS TO BE TAKEN IN 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.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Not required – Use normal safety precautions.

SKIN PROTECTION: Long-sleeved shirt and long pants. Shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves made of any waterproof material.

RESPIRATOR REQUIREMENTS: Not required – Use normal safety precautions.

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

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- 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.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Use adequate ventilation to minimize airborne concentrations of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Off-white liquid

ODOR: Characteristic odor

FLASH POINT: Not applicable

pH: 5-6

BOILING POINT: ca. 100°C

SOLUBILITY IN H₂O: Dispersible

SPECIFIC GRAVITY (H₂O=1): 1.213 @ 20/21°C

DENSITY: 1.21 g/mL (10.12 lbs./gallon)

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

MATERIALS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Not applicable.

INSTABILITY CONDITIONS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD ₅₀ (Rat):	Not available
Acute Dermal LD ₅₀ (Rabbit):	Not available
Acute Inhalation LC ₅₀ (Rat):	Not available
Eye Irritation:	Mildly irritating
Dermal Irritation:	Not available
Dermal Sensitization:	Not available

12. ECOLOGICAL INFORMATION

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 washwaters.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

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

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Packaging < 2.13 gals : Not regulated

Packaging = or > 2.13 gals : UN3082, Environmentally hazardous substances, liquid, N.O.S.
(Thiophanate-methyl), 9, PGIII, RQ

INTERNATIONAL TRANSPORTATION

IMO (vessel): Not regulated

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302:	Not applicable.
Section 311/312:	Acute health hazard (immediate)
Section 313:	Thiophanate-methyl (46.2%) CAS# 23564-05-8

CA PROPOSITION 65: This product contains a chemical (thiophanate-methyl) that is known to the State of California to cause female and male reproductive toxicity.

CERCLA RQ: Thiophanate-methyl RQ= 10 lbs. (Product= 21.6 lbs/2.13 gals)

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

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TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	1	1	0 MINIMAL
FLAMMABILITY:	0	0	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

The information herein is given in good faith, but no warrant, express or implied, is made. Consult Prime Source LLC for further information.

Initial: February 26, 2013