# SAFETY DATA SHEET



Revision date 09-May-2024 Revision Number 1

### 1. Identification

**Product identifier** 

Product Name TM 4.5F SELECT

Other means of identification

Product Code(s) 89442-14

Synonyms None

Registration Number(s) 89442-14

Recommended use of the chemical and restrictions on use

Recommended use Fungicide

Restrictions on use Follow label instructions

Details of the supplier of the safety data sheet

#### **Company Address**

PrimeSource, A Division of Albaugh LLC. 1525 NE 36th St Ankeny, IA 50021 USA

### Emergency telephone number

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident:

• Call CHEMTREC Day or Night within USA and Canada: 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

For Medical Emergencies Only:

Call Albaugh LLC Day or Night within USA and Canada: 1-888-347-6732

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

# 2. Hazard(s) identification

### Classification

| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
|---|------------|
| Skin sensitization                        | Category 1 |
| Germ cell mutagenicity                    | Category 2 |

#### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Warning

Hazard statements

Harmful if inhaled

May cause an allergic skin reaction Suspected of causing genetic defects



Appearance viscous Physical state Liquid Odor No information available

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/clothing and eye/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Contaminated work clothing must not be allowed out of the workplace

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other information

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

# 3. Composition/information on ingredients

#### **Substance**

Not applicable.

#### Mixture

| Chemical name                | CAS No      | Weight-%    | Active Ingredient |
|------------------------------|-------------|-------------|-------------------|
| Thiophanate-methyl           | 23564-05-8  | 45.27-48.07 | X                 |
| Propylene Glycol             | 57-55-6     | 4.75-5.25   |                   |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5   | 0.18-0.22   |                   |
| Other Ingredients            | PROPRIETARY | >40.00      |                   |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First-aid measures

### **Description of first aid measures**

**General advice** 

Show this safety data sheet to the doctor in attendance.

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**Inhalation** Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give

artificial respiration. Get medical attention immediately.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a physician.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

**Symptoms** Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

### 5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak. Avoid breathing vapors or mists.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

# 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

Avoid breathing vapors or mists.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children.

# 8. Exposure controls/personal protection

### Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection**Wear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance viscous
Color off white

Odor No information available
Odor threshold No information available

Property Values Remarks • Method 5.0 - 6.0

pH (as aqueous solution)

Melting point / freezing point
Initial boiling point and boiling range100 °C / 212 °F
Flash point
Evaporation rate
Flammability
No data available
No data available
No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableRelative vapor densityNo data availableRelative densityNo data availableWater solubilityDispersible in waterSolubility(ies)No data availablePartition coefficientNo data availableAutoignition temperatureNo data available

**Decomposition temperature** 

Kinematic viscosity

No data available

No data available

No data available

Other information

Explosive properties

Oxidizing properties

No information available
VOC content
No information available
Liquid Density

Bulk density

No information available

### 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Excessive heat.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

#### Information on likely routes of exposure

### **Product Information**

Inhalation Specific test data for the substance or mixture is not available. Harmful by inhalation. (based

on components).

Eye contact Specific test data for the substance or mixture is not available.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

<sup>\*</sup>Listed density is an approximate value and does not necessarily represent that of a specific batch

susceptible persons. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Coughing and/ or wheezing.

**Acute toxicity** 

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 12,812.40 mg/kg

ATEmix (inhalation-dust/mist) 3.21 mg/l

**Component Information** 

| Chemical name                | Oral LD50          | Dermal LD50                  | Inhalation LC50                    |
|------------------------------|--------------------|------------------------------|------------------------------------|
| Thiophanate-methyl           | = 6640 mg/kg (Rat) | > 2000 mg/kg (Rabbit) > 10   | = 1700 mg/m <sup>3</sup> (Rat) 4 h |
| 23564-05-8                   |                    | g/kg (Rat) > 10 g/kg (Rabbit |                                    |
|                              |                    | )                            |                                    |
| Propylene Glycol             | = 20 g/kg (Rat)    | = 20800 mg/kg (Rabbit)       | -                                  |
| 57-55-6                      |                    |                              |                                    |
| 1,2-Benzisothiazol-3(2H)-one | = 1020 mg/kg (Rat) | -                            | -                                  |
| 2634-33-5                    |                    |                              |                                    |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for

ingredients. Suspected of causing genetic defects.

Carcinogenicity No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Chemical name      | Algae/aquatic plants   | Fish                   | Toxicity to microorganisms | Crustacea             |
|--------------------|------------------------|------------------------|----------------------------|-----------------------|
| Thiophanate-methyl | -                      | LC50: =7.8mg/L (48h,   | -                          | -                     |
| 23564-05-8         |                        | Oncorhynchus mykiss)   |                            |                       |
| Propylene Glycol   | EC50: =19000mg/L (96h, | LC50: =51600mg/L (96h, | -                          | EC50: >1000mg/L (48h, |

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| 57-55-6 | Pseudokirchneriella | Oncorhynchus mykiss)    | Da | aphnia magna) EC50: |
|---------|---------------------|-------------------------|----|---------------------|
|         | subcapitata)        | LC50: 41 - 47mL/L (96h, |    | >10000mg/L (24h,    |
|         |                     | Oncorhynchus mykiss)    |    | Daphnia magna)      |
|         |                     | LC50: =51400mg/L (96h,  |    |                     |
|         |                     | Pimephales promelas)    |    |                     |
|         |                     | LC50: =710mg/L (96h,    |    |                     |
|         |                     | Pimephales promelas)    |    |                     |

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

**Component Information** 

| Chemical name                | Partition coefficient |
|------------------------------|-----------------------|
| 1,2-Benzisothiazol-3(2H)-one | 1.3                   |
| 2634-33-5                    |                       |

Other adverse effects No information available.

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# 14. Transport information

DOT

**Notes** 

< 2 gallons  $\,$  Not Regulated. >2 gallons  $\,$  UN3082, Environmentally Hazardous Substance, Liquid, N.O>S., 9 PG III (thiophanate-methyl), RQ > 119 gallons  $\,$  UN3082, Environmentally Hazardous Substance, Liquid, N.O>S., 9 PG III (thiophanate-methyl), Marine Pollutant, RQ

# 15. Regulatory information

U.S. EPA Label Information

**EPA Pesticide Registration Number** 89442-14

**EPA Pesticide Label** Harmful if swallowed, absorbed through skin, or inhaled.

International Inventories

**TSCA** Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply **ENCS** Does not comply Does not comply **IECSC KECL** Does not comply **PICCS** Does not comply AIIC Does not comply

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#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name                   | SARA 313 - Threshold Values % |
|---------------------------------|-------------------------------|
| Thiophanate-methyl - 23564-05-8 | 1.0                           |

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name      | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|--------------------|--------------------------|------------------------------------|
| Thiophanate-methyl | 10 lb                    | -                                  |
| 23564-05-8         |                          |                                    |

### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

| Chemical name                   | California Proposition 65 |
|---------------------------------|---------------------------|
| Thiophanate-methyl - 23564-05-8 | Female Reproductive       |
|                                 | Male Reproductive         |

# U.S. State Right-to-Know Regulations

| Chemical name      | New Jersey | Massachusetts | Pennsylvania |
|--------------------|------------|---------------|--------------|
| Thiophanate-methyl | X          | -             | -            |
| 23564-05-8         |            |               |              |
| Water              | -          | -             | X            |
| 7732-18-5          |            |               |              |
| Propylene Glycol   | X          | -             | X            |
| 57-55-6            |            |               |              |

# 16. Other information

| NFPA_                      | Health hazards 2 | 2 Flammability      | 0 | Instability 0      | Special hazards -     |
|----------------------------|------------------|---------------------|---|--------------------|-----------------------|
| HMIS_                      | Health hazards 2 | 2 * Flammability    | 0 | Physical hazards 0 | Personal protection X |
| Chronic Hazard Star Legend | t = Ch           | ronic Health Hazard |   | -                  | -                     |

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note**No information available.

**Disclaimer** 

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**End of Safety Data Sheet**