



Revision Date: January 3, 2024



Section 1 – Identification

Product Identifier: Phobos FC

Recommended use: Refer to product label for use instructions.

Manufacturer/Supplier: Vive Crop Protection Inc., 500 Westover Dr. #10198, Sanford, NC 27330

Web: http://www.vivecrop.com

Technical Assistance: support@vivecrop.com

Sales enquiries: sales@vivecrop.com

Phone: 1-888-760-0187

24-Hour Emergency Phone: ChemTel Inc.

North America: 1-800-255-3924

Outside North America: +1-813-248-0585

Section 2 – Hazard Identification

Classification: The following hazard classification is in accordance with 29 CFR 1910.1200 [OSHA HCS 2012] in the United States of America, and WHMIS 2015 in Canada.

Label Elements, Including Precautionary Statements:

Signal Word: None

Hazard Statements: None

Precautionary Statements: None

Section 3 – Composition/Information on Ingredients

| Component | CAS | Wt % |
|-----------------|-------------|-------|
| Prothioconazole | 178928-70-6 | 32.3% |

Contains other ingredients not otherwise classified as hazardous or present in concentrations which warrant inclusion in this SDS.

Section 4 – First-Aid Measures

| | |
|--------------|---|
| Ingestion | P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. |
| Inhalation | P304 + P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell. |
| Eye Contact | 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 attention |
| Skin Contact | P302 + P312 IF ON SKIN: Call a POISON CENTER or physician if you feel unwell P332 |

| | |
|--|---|
| | + P313 If skin irritation occurs: Get medical advice. |
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Section 5 – Fire Fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Specific hazards: May produce toxic and irritant vapors

Special protective equipment: Wear self-contained breathing apparatus for fire fighting

Section 6 – Accidental Release Measures

Personal Precautions: Wear respiratory protection. Wear protective gloves/protective clothing. Do not breathe mist/spray. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environment Precautions: Do not let product enter drains. Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning Up: Absorb using inert materials and dispose of in accordance with local regulations. Do not let the material dry before cleaning the spill.

Section 7 – Handling and Storage

Conditions for Safe Storage: P403 +P233 – Store in a well-ventilated place. Keep container tightly closed; P405 - Store locked up; Avoid extreme temperatures

Section 8 - Exposure Controls/Personal Protection:

| Component | OSHA PEL | ACGIH TLV | AOEL |
|-----------------|----------|-----------|------------------|
| Prothioconazole | N/A | N/A | 0.2 mg/kg bw/day |

Engineering Controls: This product is intended to be used outdoors. If necessary, provide local exhaust ventilation and use appropriate containment procedures to maintain airborne levels at a safe concentration.

Personal Protective Equipment: Wear eye protection and protective gloves.

Section 9 – Physical and Chemical Properties

| | |
|------------|----------------------|
| Appearance | Off-white, Liquid |
| Odor | Characteristic Odour |

| | |
|---|----------------|
| Odor threshold | Not available |
| pH | 6.26 @ 20°C |
| Melting point | Not available |
| Freezing point | Not available |
| Initial Boiling point/Boiling Range | Not available |
| Flash point | Not available |
| Evaporation rate | Not available |
| Flammability (solid, gas) | Not available |
| Lower explosive limit | Not available |
| Upper explosive limit | Not available |
| Vapor pressure | Not available |
| Vapor density | Not available |
| Relative Density | 1.13g/mL |
| Solubility | Not available |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | 77.9 cP @ 20°C |

Section 10 –Stability and Reactivity

| | |
|----------------------------------|---|
| Reactivity | Strong Oxidizers |
| Chemical Stability | Stable under normal conditions |
| Hazardous Reactions | Not known |
| Conditions to Avoid | Excessive heat and open flames. |
| Incompatible Materials | Strong oxidizers such as nitrates, nitrites, or chlorates. Strong acids or acid minerals. |
| Hazardous Decomposition Products | Not available |

Section 11 – Toxicological information:

| | |
|-----------------------------|---|
| Acute Oral LD50 | >5000 mg/kg bw in rats |
| Acute Dermal LD50 | Not toxic |
| Acute Inhalation LC50 | >2.89 mg/L |
| Eye Irritation / Corrosion | EPA Toxicity Category (Dec 2002): 3 Rabbits: No corneal epithelium damage at 24h, post TIA |
| Skin Irritation / Corrosion | Non-irritant in rabbits |



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| | |
|---------------------------|-------------------|
| Dermal Sensitization | No data available |
| Germ Cell Mutagenicity | No data available |
| Carcinogenicity | No data available |
| Reproductive Toxicity | No data available |
| STOT-Single Exposure | No data available |
| STOT-Repeated Exposure | No data available |
| Aspiration Hazard | No data available |
| Acute Exposure Symptoms | No data available |
| Chronic Exposure Symptoms | No data available |
| Interactions | No data available |

Section 12 – Ecological Information (For Prothioconazole):

| | |
|---------------------------------|----------------------------------|
| Bird LD50 | Not known |
| Bird Dietary LD50 | Not known |
| Fish Acute 96-h LC50 | 1.83 mg/L |
| Fish Chronic 30-d | Not known |
| Aquatic Invertebrate Acute EC50 | 1.3mg/L |
| Aquatic Crustacean Acute LC50 | Not known |
| Algae Acute 72-h IC50 | 2.18 mg/L |
| Honeybee Acute 48-h | Not known |
| Earthworm Acute 14-d | Not known |
| Soil Degradation DT50 | Not known |
| Aqueous Photolysis DT50 | Not known |
| Aqueous Hydrolysis DT50 | Not known |
| Bioaccumulation Potential | Does not bioaccumulate (BCF: 19) |

Section 13 – Disposal: P501 – Dispose of contents/container in accordance with local/regional/national/international regulations. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA regional Office for guidance. Dangerous to the environment. Avoid all releases to sewer.

Section 14 – Transportation Information:

Vive Crop Protection Inc., 500 Westover Dr. #10198, Sanford, NC 27330 Tel +1-888-760-0187

DOT (US) Ground – Non-Bulk (<= 119 Gallons):
Not hazardous

DOT (US) – Marine or Bulk (> 119 Gallons):
UN-Number: 3077

Class: 9

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S. (Prothioconazole mixture), marine pollutant

Air Transport (IATA)

UN-Number: 3077

Class: 9

Packing Group:III

Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S. (Prothioconazole mixture), marine pollutant
Exemptions: “Not Restricted” as per IATA special provision A197 provided that the net quantity in any receptacle does not exceed 5 kg or 5 L and the packaging used meets defined standards.

Section 15 – Regulatory Information:

FIFRA: This mixture is a pesticide product as per 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 material 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.

EPA Registration No: 89118-17

Section 16 – Other Information:

LEGAL NOTICE: Vive Crop Protection, Inc. requests all users of this product to study this Material Safety Data Sheet (SDS) and become aware of all product hazards and safety information. The data in this SDS relate only to the specific product designated herein and do not relate to use of such product in combination with any other material or in any process. To promote the safe use of this product, all users should notify their employees, agents and contractors of the information in this SDS and any other product hazards and safety information.

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