



Revision Date: January 14, 2020



Section 1 – Identification

Product Identifier: Xyler FC
 Recommended use: **Refer to product label for use instructions.**

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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.

Acute Inhalation 4; Eye Irritation 2B

Label Elements, Including Precautionary Statements:



Signal Word: Warning

Hazard Statements: H320 Causes eye irritation; H332 Harmful if inhaled; H401 Toxic to aquatic life; H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements: P261 Avoid breathing mist/spray; P270 Do not eat, drink, or smoke when using this product; P273 Avoid releases to the environment; P281 Use personal protective equipment as required.

Section 3 – Composition/Information on Ingredients

Component	CAS	Wt %
Metalaxyl	57837-19-1	31.3

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 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor; P330 Rinse mouth.
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Inhalation	P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing; P312 Call a POISON CENTER or 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 + P352 IF ON SKIN: Wash with plenty of water; P332 + P313 – If skin irritation occurs: Get medical attention; P362 + P364 Take off contaminated clothing and wash it before reuse

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

GHS Precautions for Safe Handling: P261 Avoid breathing mist/spray; P270 Do not eat, drink, or smoke when using this product; P273 Avoid releases to the environment; P281 Use personal protective equipment as required.

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:

Exposure limits have not been set for the mixture. The following limits and controls are based on available data for the hazardous component(s).

Component	OSHA PEL	ACGIH TLV	AOEL
Metalaxyl	N/A	N/A	0.08 mg/kg/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: Applicators and other handlers must wear: Long-sleeved shirt and long pants; Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber; Shoes plus socks.

Section 9 – Physical and Chemical Properties

Appearance	Off white liquid
Odor	Mild unsaturated
Odor threshold	Not available
pH	7.13
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	1.09 g/mL @ 22.2°C
Solubility	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Non-Newtonian

Section 10 –Stability and Reactivity

Reactivity	Strong oxidizers
Chemical Stability	Not available



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Hazardous Reactions	Not available
Conditions to Avoid	Not available
Incompatible Materials	Strong oxidizers
Hazardous Decomposition Products	No data available

Section 11 – Toxicological information:

Acute Oral LD50	Rat: 2,080 mg/kg
Acute Dermal LD50	Rabbit: No data available
Acute Inhalation LD50	Rat: > 2.30 mg/L
Eye Irritation / Corrosion	Rabbit: Moderately irritating clear by day 7. Positive corneal opacity in 3/3 test animals clear by day 4. Positive conjunctivitis in 3/3 test animals clear within 24 hours.
Skin Irritation / Corrosion	Rabbit: Slightly irritation (PDDI 1.0) clear by day 7. Mean erythema score 1.0 clear by day 7. mean edema score 0.3 clear by 72 hours.
Dermal Sensitization	No skin sensitization (similar formulation).
Germ Cell Mutagenicity	No data available.
Carcinogenicity	Not classified as carcinogenic by NTP, IARC, or ACGIH
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.

Section 12 – Ecological Information (metalaxyl only):

Bird LD50	> 694 mg/kg-bw
Bird Dietary LD50	900 mg/kg-bw/d
Fish Acute	130 mg/L
Fish Chronic NOAEL	9.1 mg/L
Aquatic Invertebrate Acute EC50	17.6 mg/L
Aquatic Crustacean Acute LC50	1.5 mg/L
Aquatic Crustacean Chronic NOAEC	0.74 mg/L

Algae Acute 96-h	20.3 mg/L
Algae Chronic NOAEC	6.2 mg/L
Honeybee Acute 48-h	> 100 µg/bee
Soil Degradation DT50	38.7d
Aqueous Photolysis DT50	pH 7 stable
Aqueous Hydrolysis DT50	pH 7 106d

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:
DOT (US) Ground – Non-Bulk (<= 119 Gallons):
Not a dangerous good

DOT (US) – Marine or Bulk (> 119 Gallons):
Not a dangerous good

Air Transport (IATA):
Not a dangerous good

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.

Caution. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. 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. Wear long-sleeved shirt and long pants, socks, shoes, and gloves.

EPA Registration Number: 89118-12

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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