



Revision Date: January 10th, 2020



**Section 1 – Identification**

Product Identifier: Averland FC  
Recommended use: **Refer to product label for use instructions.**  
Manufacturer/Supplier: Vive Crop Protection Inc., 6275 Northam Dr., Suite 1, Mississauga, ON L4V 1Y8, Canada  
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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.

Acute Inhalation Toxicity 2; Acute Oral Toxicity 3; Reproductive Toxicity 2; Specific Target Organ Toxicity Following Repeated Exposure 2

Label Elements, Including Precautionary Statements:



**Signal Word:** Danger

**Hazard Statements:** H301 Toxic if swallowed; H330 Fatal if inhaled; H361 Suspected of damaging the unborn child; H373 May cause damage to central nervous system through prolonged or repeated exposure.

**Precautionary Statements:** P201 Obtain special instructions before use; P202 Do not handle until all safety precautions have been read and understood; P260 Do not breath mist/spray; P264 Wash thoroughly after handling; P270 Do not eat, drink, or smoke when using this product; P271 Use only outdoors or in a well-ventilated area; P280 Wear protective gloves/clothing/eyewear; P284 In case of inadequate ventilation wear respiratory protection.

**Section 3 – Composition/Information on Ingredients**

Component	CAS	Wt %
Abamectin	71751-41-2	8.0

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.
Inhalation	P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing; P310 – Immediately call a POISON CENTER or doctor; P320 – Specific treatment is urgent (see first aid section on this label)
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	P312 – Call a POISON CENTER or physician if you feel unwell

Symptoms/Effects, Acute and Delayed: Symptoms may include neurologic effects such as mydriasis, decreased strength, tremors, ataxia, spastic movement, weight loss, or death.

**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: P201 Obtain special instructions before use; P202 Do not handle until all safety precautions have been read and understood; P260 Do not breath mist/spray; P264 Wash thoroughly after handling; P270

Do not eat, drink, or smoke when using this product; P271 Use only outdoors or in a well-ventilated area; P280 Wear protective

gloves/clothing/eyewear; P284 In case of inadequate ventilation wear respiratory protection.

Material may form an explosive dust cloud in the air if allowed to dry to a powder. Take all precautions to prevent material from drying out in an uncontrolled or unsafe manner.

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
abamectin	-	-	0.0025 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; Shoes plus socks; Chemical resistant gloves made of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinylchloride (PVC) ≥ 14 mils or viton ≥ 14 mils; A NIOSH-approved respirator with any R or P filter OR a NIOSH-approved elastomeric particulate respirator with any R or P filter OR a NIOSH-approved powered air purifying respirator with HE filters.

**Section 9 – Physical and Chemical Properties**

Appearance	Light Beige
Odor	Moderate Estery
Odor threshold	Not available
pH	7 - 8
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



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Vapor density	Not available
Relative Density	1.04 g/cm <sup>3</sup> @ 22.5°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	Stable under normal conditions
Hazardous Reactions	When heated to decomposition, will emit toxic vapors or irritating vapors.
Conditions to Avoid	Not available
Incompatible Materials	Strong oxidizers.
Hazardous Decomposition Products	No date available

**Section 11 – Toxicological information:**

Acute Oral LD50	Rat: 165 mg/kg
Acute Dermal LD50	Rabbit: 2000 mg/kg
Acute Inhalation LD50	Rat: 0.055 - 0.52 mg/L
Eye Irritation / Corrosion	Rabbit: Positive conjunctivitis clear within 72 hours.
Skin Irritation / Corrosion	Rabbit: Very slight erythema and/or very slight edema clear within 7 days.
Dermal Sensitization	Guinea pig: not a sensitizer
Germ Cell Mutagenicity	No data available
Carcinogenicity	Abamectin: Laboratory tests have not shown carcinogenic effects.
Reproductive Toxicity	Abamectin: Shown to have reproductive toxicity effects on laboratory animals.
STOT-Single Exposure	No data available.
STOT-Repeated Exposure	May cause neurological damage.
Aspiration Hazard	No data available.
Acute Exposure Symptoms	Abamectin: Central nervous system effects in animal studies.

Chronic Exposure Symptoms	Abamectin: Central nervous system effects in animal studies.
Interactions	Not available

**Section 12 – Ecological Information (abamectin):**

Bird LD50	< 77 mg/kg
Bird Dietary LD50	48.6 mg/kg bw/day
Fish Acute 96-h	3.6 µg/L
Fish Chronic 30-d	0.52 mg/L NOEC
Aquatic Invertebrate Acute EC50	0.1 µg/L
Aquatic Crustacean Acute LC50	No data available
Algae Acute 72-h	> 1.59 mg/L
Honeybee Acute 48-h	0.0022 µg/bee
Earthworm Acute 14-d	33 mg/kg
Soil Degradation DT50	Lab: 95
Aqueous Photolysis DT50	1.5
Aqueous Hydrolysis DT50	pH 4/7: stable
Bioaccumulation Potential	69

**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):  
 UN-Number: 2902  
 Class: 6.1  
 Packing Group: II  
 Proper Shipping Name: Pesticide, liquid, toxic, n.o.s. (Abamectin)

Other: Bulk or Air Marine Pollutant

**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.

Warning. May be fatal if swallowed. May be fatal if inhaled. Do not breathe spray mist. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

EPA Registration Number: 89118-10

California Proposition 65:

ATTENTION: This product can expose you to chemicals including abamectin, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**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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