

Revision Date: August 12, 2025



Section 1 - Identification

Product Identifier: Bifender® SM

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

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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.

Label Elements, Including Precautionary Statements:







Acute Oral 4; Acute Inhalation 4; Skin irritation 3; Eye irritation 2B; Carcinogenicity 2; Acute Aquatic 1; Chronic Aquatic 1

Signal Word: WARNING

Hazard Statements: H302 Harmful if swallowed; H316 Cuases mild skin irritation; H332 Harmful if inhaled; H351 Suspected of causing cancer; H400 Very toxic to aquatic life; H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements: P201 Obtain special instructions before use; P202 Do not handle until all safety precautions have been read and understood; P261 Avoid breathing dust/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; P273 Avoid release to the environment; P280 Wear protective gloves; P281 Use personal protective equipment as required

Section 3 - Composition/Information on Ingredients

Component	CAS	Wt %
Bifenthrin	82657-04-3	12.0%

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 + 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	P302 + P312 IF ON SKIN: Call a POISON
Contact	CENTER or physician if you feel unwell P332
	+ P313 If skin irritation occurs: Get medical
	advice.

Symptoms/Effects, Acute and Delayed: Ingestion or inhalation may cause incoordination, tremors, salivation, vomiting, diarrhea, and irritability to sound and touch. Dermal exposure may cause tingling sensations, rash, redness, irritation, or inflammation.

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: P264 Wash thoroughly after handling; P261 Avoid breathing dust/mist/spray; P270 Do not eat, drink or smoke when using this product; P271 Use only outdoors or in a well-ventilated area; P273 Avoid release to the environment

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
Bifenthrin	-	=	0.0075
			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 (other than mixers and loaders) must wear: Long-sleeved shirt and long pants; Shoes plus socks; Chemical resistant gloves made of: barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils or viton \geq 14 mils

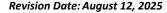
Mixers and loaders must wear:

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, polyvinyl chloride (PVC) ≥ 14 mils or viton ≥ 14 mils; Protective eyewear

Section 9 – Physical and Chemical Properties

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Appearance	Off-white Liquid	
Odor	Mild unsaturated	
Odor threshold	Not available	
pH	6-8	
Melting point	Not available	

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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	Not available
Solubility	1.01 – 1.11 g/mL
	(20°C)
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

Section 10 - Stability and Reactivity

ection 10 –Stability and Reactivity		
Reactivity	Not compatible with strong	
	oxidizers.	
Chemical Stability	Relatively stable in neutral and weakly basic media.	
Hazardous Reactions	When heated to decomposition, will emit toxic vapors of fluorine and chlorine	
Conditions to Avoid	High temperatures, strong oxidizers	
Incompatible Materials	Strong oxidizers	
Hazardous Decomposition Products	No data Available. In the event of a fire, see section 5	

Section 11 – Toxicological information:

Acute Oral LD50	1360 mg/kg
Acute Dermal LD50	> 5000 mg/kg
Acute Inhalation LD50	2.05 mg/L
Eye Irritation /	Rabbit: Minimally irritating.
Corrosion	Irritation cleared by 48
	hours.

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Skin Irritation /	Rabbit: Slightly irritating.	
Corrosion	Irritation cleared by 72	
	hours.	
Dermal Sensitization	Guinea Pig: No skin	
	sensitization	
Germ Cell Mutagenicity	No data available	
Carcinogenicity	Not classified as	
	carcinogenic by NTP, IARC or	
	ACGIH. Bifenthrin is listed as	
	possible human carcinogen	
	(Category C) by the US-EPA	
	HED-CPRC1.	
Reproductive Toxicity	Not a developmental or	
	reproductive toxicant	
	(bifenthrin).	
STOT-Single Exposure	No data available	
STOT-Repeated	No data available	
Exposure		
Aspiration Hazard	No data available	
Acute Exposure	Acute exposure of bifenthrin	
Symptoms	may lead to tremors,	
	twitching, uncoordinated	
	movement/ataxia,	
	convulsions and skin	
	irritation/rash.	
Chronic Exposure	Chronic exposure of	
Symptoms	bifenthrin may lead to	
	tremors, twitching,	
	uncoordinated	
	movement/ataxia, and	
	convulsions.	
Interactions	None known	

Section 12 – Ecological Information:

Bird LD50	18000 mg/kg
Bird Dietary LD50	4450 mg/kg
Fish Acute 96-h	2.6 μg/L
Fish Chronic 30-d	0.12 μg/L
Aquatic Invertebrate Acute EC50	1.1 μg/L
Aquatic Crustacean Acute LC50	0.012 μg/L
Algae Acute 72-h	0.882 μg/L
Honeybee Acute 48-h	0.1 μg/Bee

>8 μg/kg
26d
pH 7: 255 d
pH 5-9: stable
1703

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: 3352

Class: 6.1

Packing Group: III

Proper Shipping Name: Pyrethroid pesticide, liquid, toxic

(Bifenthrin mixture)

DOT (US) – Marine or Bulk (> 119 Gallons):

UN-Number: 3352

Class: 6.1

Packing Group: III

Proper Shipping Name: Pyrethroid pesticide, liquid, toxic

(Bifenthrin mixture)
Other: Marine pollutant

Air Transport (IATA) UN-Number: 3352

Class: 6.1

Packing Group: III

Proper Shipping Name: Pyrethroid pesticide, liquid, toxic

(Bifenthrin mixture)
Other: Marine pollutant



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Section 15 – Regulatory Information:

Pesticidal use is only permitted in compliance with small-scale testing which conforms to the requirements of 40 CFR 172.3 (b).]

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.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS Caution. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear, if appropriate. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

EPA Registration Number: 89118-8

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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