

**Section 1 – Identification**

Product Identifier: Viloprid FC 1.7

Recommended use: **Refer to product label for use instructions.**

Manufacturer/Supplier: Vive Crop Protection Inc., 6275

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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 Symbols:

**Signal Word:** Warning**Hazard Statements:** H320 Causes eye irritation; H332 Harmful if inhaled**Precautionary Statements:** P254 wash thoroughly after handling; P261 Avoid breathing mist/spray.**Section 3 – Composition/Information on Ingredients**

Component	CAS	Wt %
Imidacloprid	138261-41-3	18.5

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

Section 4 – First-Aid Measures

Ingestion	P312 Call a POISON CENTER or physician if you feel unwell
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.

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	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: P254 wash thoroughly after handling.

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
Imidacloprid	-	-	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: 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; Shoes plus socks.

Section 9 – Physical and Chemical Properties

Appearance	Beige liquid
Odor	Mild halide
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
Vapor density	Not available
Relative Density	1.10 g/cm ³ @ 21.6°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 data available.



Section 11 – Toxicological information:

Acute Oral LD50	Rat: 2074 mg/kg
Acute Dermal LD50	Rabbit: > 5000 mg/kg
Acute Inhalation LD50	> 2.07 mg/L
Eye Irritation / Corrosion	Rabbit: Positive conjunctivitis clear within 48 hours. MMTS = 10.0.
Skin Irritation / Corrosion	Rabbit: Very slight erythema and/or very slight edema clear within 48 hours. PDII = 0.4.
Dermal Sensitization	Guinea Pig: Not a sensitizer.
Germ Cell Mutagenicity	Imidacloprid: not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Carcinogenicity	Imidacloprid: not carcinogenic in lifetime feeding studies in rats and mice.
Reproductive Toxicity	Imidacloprid: caused reproductive toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals.
STOT-Single Exposure	No data available.
STOT-Repeated Exposure	Imidacloprid: did not cause specific target organ toxicity in experimental animal studies.
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 (imidacloprid):

Bird LD50	31 mg/kg
Bird Dietary LD50	Not available
Fish Acute 96-h	211 mg/L
Fish Chronic 30-d	9.02 mg/L NOEC
Aquatic Invertebrate Acute EC50	85 mg/L

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Aquatic Invertebrate Chronic 21-d	1.8 mg/L NOEC
Aquatic Crustacean Acute LC50	0.046 mg/L
Algae Acute 72-h	> 10 mg/L
Honeybee Acute 48-h	0.0037 µg/bee
Earthworm Acute 14-d	10.7 mg/kg
Soil Degradation DT50	174
Aqueous Photolysis DT50	0.2
Aqueous Hydrolysis DT50	pH 4/7 stable
Bioaccumulation Potential	61

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 regulated

DOT (US) – Marine or Bulk (> 119 Gallons):
UN-Number: 3082

Class: 9
Packing Group: III
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Imidacloprid mixture)
Other: Marine Pollutant (49 CFR 171.4)
Exemption: Not a dangerous good if single or combination packaging contains a net quantity per single or inner packaging of 5 L or less.

Air Transport (IATA)
Class: 9

Packing Group: III
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Imidacloprid mixture)
Other: Marine Pollutant
Exemptions (Special Provisions): “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.

Caution. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

EPA Registration Number: 89118-9

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. LEGAL DISCLAIMER: THE INFORMATION CONTAINED IN THIS SDS IS BELIEVED TO BE ACCURATE AS AT THE DATE OF ITS PREPARATION BUT VIVE CROP MAKES NO REPRESENTATION OR WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, WITH RESPECT TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. SINCE THE USE OF THIS INFORMATION AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF VIVE CROP, IT IS ULTIMATELY THE USER'S OBLIGATION TO DETERMINE THE SUITABILITY OF ANY MATERIAL AND THE CONDITIONS OF SAFE USE OF THIS PRODUCT BY ALL RELEVANT PARTIES. VIVE CROP DOES NOT ASSUME ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN OR FOR INCORRECT HANDLING OR USE OF THE PRODUCT OR THE INHERENT HAZARDS INVOLVED IN THE NATURE OF THE PRODUCT ITSELF. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, VIVE CROP CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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