



**Revision Number: 1.3**  
**Revision Date: Sep 17, 2019**

**Section 1 – Identification**

**Product Identifier:** Midac FC

**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 Oral Toxicity – 5; Eye Irritation – 2B; Acute Hazards to the Environment - 1

**Label Elements, Including Precautionary Statements:**

Signal Word: **Warning**

EPA Signal Word: **CAUTION**

**Hazard Statements:** H303 – May be harmful if swallowed; H320 – Causes eye irritation; H400 – Very harmful to aquatic life

**Precautionary Statements:** 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

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

**Component A:** Imidacloprid

CAS 138261-41-3, 18.5 % (w/w)

**Component B:** The specific chemical identity and percentage composition of this component is being withheld as a trade secret under 29 CFR 1910.1200(i).

**Component C:** The specific chemical identity and percentage composition of this component is being withheld as a trade secret under 29 CFR 1910.1200(i).

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

**Skin Contact:** P312 – Call a POISON CENTER or physician if you feel unwell

**Inhalation:** P304 + P312 – IF INHALED: 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

**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 including carbon oxides, nitrogen oxides, hydrogen chloride gas

**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.

**Section 7 – Handling and Storage**

**GHS Precautions for Safe Handling:** 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

**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 formulated product. The following limits and controls are based on available data for imidacloprid.

**Control Parameters:** OSHA PEL: Not established; ACGIH TLV: Not established; Acceptable Operator Exposure Level (AOEL): 0.08 mg/kg/day; Exposure Limit (TWA): Not established; NTP/IARC/OSHA Carcinogen: No

**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:**

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.

**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 <sup>3</sup> @ 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

Possibility of 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. In the event of a fire, see section 5

### Section 11 – Toxicological information:

Acute toxicity: Oral LD50 rat: 2074 mg/kg; Dermal LD50 rabbit > 5000 mg/kg; Inhalation LC50 (4 hour) rat: > 2.07 mg/L

Skin Corrosion/Irritation: Rabbit: Very slight erythema and/or very slight edema clear within 72 hours. PDII = 0.4.

Serious Eye Damage/Irritation: Rabbit: Positive conjunctivitis clear within 48 hours. MMTS = 10.0.

Dermal Sensitization: Guinea pig: Not a sensitizer.

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available.

Reproductive Toxicity: No data available.

### Section 12 – Ecological Information:

While no additional ecotoxicity effects have been determined for this mixture. It is recommended that this material be treated as hazardous material and precautions be taken to ensure this material is not released into the environment. The following information is based on the testing imidacloprid.

#### Toxicity:

Birds – Acute LD50: 31 mg/kg

Birds – Dietary LD50: Not available

Fish – Acute 96 hour LC50: 211 mg/L

Fish – Chronic 30 Day NOEC: 9.02 mg/L

Aquatic invertebrate – Acute EC50: 85 mg/L

Aquatic invertebrate – chronic 21 day NOEC: 1.8 mg/L

Aquatic crustaceans – Acute LC50: 0.046 mg/L

Algae – Acute 72 hour EC50: > 10 mg/L

Honeybees – Acute 48 hour LD50 0.0037 µg/bee

Earthworms – Acute 14 day LC50 10.7 mg/kg

#### Persistence and degradability

Soil degradation (aerobic) DT50 field: 174

Aqueous photolysis, pH 7, DT50: 0.2

Aqueous hydrolysis, pH 4/7, DT50: Stable

#### Bioaccumulative potential

BCF: 61; Log KOW: 0.57

**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)

UN-Number: 3082

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.

### 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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#### PREPARATION INFORMATION

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