



Revision Date: October 30, 2024

MIDAC® 4

Insecticide



Section 1 – Identification

Product Identifier: Midac® 4

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

Manufacturer/Supplier: Vive Crop Protection Inc., 500

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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 Dermal 4; Eye irritation 2B; Acute inhalation 3

Signal Word: Danger

Hazard Statements: H312 Harmful in contact with skin; H320 Causes eye irritation; H331 Toxic if inhaled.

Precautionary Statements: P280 Wear protective gloves and protective clothing; P264 Wash hands thoroughly after handling; P261 Avoid breathing mist; P271 Use only outdoors or in a well-ventilated area.

Section 3 – Composition/Information on Ingredients

Component	CAS	Wt %
Imidacloprid	138261-41-3	40%

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

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 hands 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	N/A	N/A	0.08 mg/kg bw/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: Shoes plus socks; 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, polyvinylchloride (PVC) ≥14 mils or viton ≥14 mils.

Section 9 – Physical and Chemical Properties

Appearance	Off-white, liquid
Odor	Not available
Odor threshold	Not available
pH	6.44
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	1.19 g/mL
Solubility	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	80.4 to 384.0 cP @19.9°C

Section 10 –Stability and Reactivity

Reactivity	Strong oxidizer
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.



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Section 11 – Toxicological information:

Acute Oral LD50	1878 mg/kg
Acute Dermal LD50	Not toxic
Acute Inhalation LD50	> 0.55 mg/L
Eye Irritation / Corrosion	Causes eye irritation
Skin Irritation / Corrosion	Not a skin irritant
Dermal Sensitization	Not a contact 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: Cause 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 (For 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
Aquatic Crustacean Acute LC50	1.8 mg/L NOEC
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)

Exemptions: Not a dangerous good if single or combination packaging contains a net quantity per single or inner packaging of 5L 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 (49 CFR 171.4)

Exemptions: Not a dangerous good if single or combination packaging contains a net quantity per single or inner packaging of 5L or less.

Section 15 – Regulatory Information:

FIFRA: This mixture is a pesticide product as per the United States Environmental Protection Agency and is subjected to certain labelling requirements under federal pesticide law.

These requirements differ from the classification criteria and hazard information required for 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. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

EPA Registration No.: 89118-16

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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