



MATERIAL SAFETY DATA SHEET

Univar USA Inc.

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Emergency Response Telephone Numbers

For Spills Call: 1-(800)-424-9300
For Medical Emergencies Call: 1-(866)-674-4334
For Other Emergencies Call: 1-(952)-653-3523

I. Material Identification

Product Name: **MasterLine IMAXX PRO Insecticide in Water Soluble Packets**

EPA Reg. No: 432-1332-73748

INGREDIENTS:

(% w/w)

Imidacloprid (CAS Reg. No. 138261-41-3)

1-((6-chloro-3-pyridinyl)methyl)-4,-dihydro-N-nitro-1H-imidazol-2-amine 75.0%

Inert Ingredients 25.0%

Chemical Class: Neonicotinoid

EPA Signal Word: Caution

II. Hazardous Ingredients

MATERIAL:

OSHA PEL

ACGIH TLV

Active Ingredient: Imidacloprid

Not established

Not established

Inert Ingredients

15 mg/m³

15 mg/m³

III. Health Hazard Data

EYE: May cause mild eye irritation, which should clear within 72 hours. Does not cause irreversible damage to eye tissue.

SKIN CONTACT: May cause moderate skin irritation with prolonged or repeated contact. Does not cause allergic skin reactions.

SKIN ABSORPTION: The acute dermal toxicity is considered to be low. The dermal LD₅₀ for rats is greater than 2000 mg/kg.



INGESTION: The acute oral toxicity is considered to be low. The oral LD₅₀ for female rats is reported at 1,858 mg/kg. Small amounts that might be swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause serious injury. Symptoms of poisoning may be similar to signs of nicotinic intoxication and may include fatigue, twitching, cramps, and muscle weakness.

INHALATION: The acute inhalation toxicity is considered to be low. The inhalation LC₅₀ for male rats is reported at 2.65 mg/l for 4 hours.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Long-term studies with imidacloprid in laboratory animal resulted in increased organ weights and changes in blood chemistry. Target organs included the thyroid, heart, and liver. In acute and subchronic neurotoxicity screening studies, imidacloprid produced slight neurotoxic effects, but no morphological changes in neural tissues.

CANCER INFORMATION: Chronic feeding studies with imidacloprid in mice and rats indicate no evidence of carcinogenicity in laboratory animals. Consequently, the EPA has classified imidacloprid as a “Group E” carcinogen (evidence of non-carcinogenicity in humans).

TERATOLOGY (BIRTH DEFECTS): The active ingredient in this product did not cause birth defects in laboratory animal studies. The doses below maternal toxicity had no effect on the fetuses in rabbits and rats. The no-effect levels for imidacloprid in rabbits and rats were 72 mg/kg and 30 mg/kg, respectively.

REPRODUCTIVE EFFECTS: Imidacloprid did not interfere with fertility in animal reproduction studies. The no effect level for imidacloprid in a two-generation rat reproduction study was 250 mg/kg.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Based on a number of *in vivo* and *in vitro* studies, it was concluded that the active ingredient in this product is not mutagenic.

IV. First Aid Procedures

EYES: Hold eye open and rinse slowly and gently with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

INHALATION: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further advice.

NOTE TO PHYSICIAN: Although this product has low oral, dermal, and inhalation toxicity, there is no specific antidote. It may be irritating to the eyes and skin. Treatment is controlled by removal of exposure followed by symptomatic and supportive care.

V. Physical Hazard Information

CHEMICAL & PHYSICAL PROPERTIES:

Color:	Light brown
Physical State:	Powder
Odor:	None
Density:	16 lbs./cu. ft. (fluffed)
Water Solubility:	Dispersible
pH:	7 (1% in water)
Stability:	Stable

FIRE AND EXPLOSION HAZARDS:

Flash Point:	Does not flash
Method Used:	Not applicable
Extinguishing Media:	Water, foam, CO ₂ , or dry chemical.
Fire & Explosion Precautions:	Foam fire-extinguishing system is preferred because uncontrolled water can spread possible contamination. Do not allow fire-fighting water to escape into waterways or sewers. Toxic irritating gases can be formed.
Fire-Fighting Equipment:	Use positive-pressure self-contained breathing apparatus and full protective equipment.

REACTIVITY:

Stability:	(CONDITIONS TO AVOID) Avoid storage conditions in which the 30-day average temperature exceeds 100° F (38° C). A strong exothermic reaction may occur if this product is exposed to an extreme temperature above 200° C.
Incompatibility:	(SPECIFIC MATERIALS TO AVOID) Exposure to moisture.
Hazardous Decomposition:	Under fire conditions hydrogen chloride, hydrogen cyanide, carbon monoxide, nitrogen oxides, and asphyxiants can be formed.
Hazardous Polymerization:	Will not occur.

VI. Environmental Protection

IN CASE OF SPILLS OR LEAKS: Wear protective clothing as described in Section VII (Personal Protection and Precautions) of this MSDS. Avoid dust formation. Sweep up and place in a suitable container for disposal and label the contents. Area can be washed down with a strong soap and water solution. Absorb any excess liquid with clay, sand, sawdust, or dirt and add to the disposal container. Keep product, contaminated materials and wash water out of streams and sewers. Wash exposed body areas thoroughly after handling.

DISPOSAL METHOD: Do not contaminate food, feed, or water by storage or cleaning of equipment. Wastes resulting from the use of this product may be disposed of on site, if approved waste handling facilities are available, or at an approved waste handling facility.

PHYSICAL ENVIRONMENTAL PROPERTIES: Imidacloprid is stable in most soils with a half-life ranging from 48 to 190 days. It is moderately soluble and has a moderate binding capacity in organic soils, which has a low potential for groundwater contamination. The persistence of imidacloprid in surface waters is more of a concern with a half-life greater than 31 days.

ENVIRONMENTAL TOXICOLOGY: Imidacloprid is moderately toxic to fish ($LC_{50} = 211$ mg/L to 237 mg/L) and is highly toxic to aquatic invertebrates ($LC_{50} = 0.038$ ppm for Mysid Shrimp). It is toxic to upland game birds with oral LD_{50} values of 152 mg/kg for Bobwhite Quail and 32 mg/kg for Japanese Quail. Imidacloprid is highly toxic to honey bees (contact $LD_{50} = 0.078$ µg/bee and oral $LD_{50} = 0.0039$ µg/bee).

VII. Personal Protection and Precautions

EXPOSURE GUIDELINE(S):

Imidacloprid	None established.
Inert ingredients	15 mg/m ³ (respirable dust)

VENTILATION: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guideline. Ventilate all transport vehicles prior to unloading.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. For most conditions, no respiratory protection should be needed; however, if the exposure guideline is exceeded, use an air-purifying respirator approved for pesticides (U.S. NIOSH/MSHA, EU CEN, or comparable certification organization).

EYE/FACE PROTECTION: Use tightly fitting safety goggles.

SKIN PROTECTION: Wear coveralls or long-sleeved shirt and long pants, chemical protective gloves (nitrile, neoprene, or Viton® brand), head covering and shoes plus socks. For increased exposures, wear a full body cover barrier suit, such as a PVC rain suit. Contaminated leather articles, such as shoes, belts, and watchbands, should be removed and destroyed. Launder all work clothing before reuse. Keep work clothing separated from household laundry.



SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE: See product label. Harmful if swallowed, inhaled, or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Avoid breathing dusts, vapors, or spray mist. Store in a cool, dry place and away from heat. Keep out of reach of children and animals. Keep away from food, feedstuffs, and water supplies.

VIII. DOT Hazardous Materials Information

U.S. SURFACE FREIGHT CLASS: Insecticide, NOI, other than Poison. NMFC Item 102120; Class 60.

OTHER SHIPPING INFORMATION: This product is not regulated for transport in the USA when shipped via highway or railroad in non-bulk packages. Describe using the “U.S. Surface Freight Class” above, which applies in all cases.

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SPECIAL NOTE: The following applies to water shipments, and shipments in bulk packages:

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Solid, N.O.S. (Imidacloprid)

HAZARD CLASS OR DIVISION: 9

IDENTIFICATION NUMBER: UN 3077

PACKING GROUP: PG III

OTHER: Marine Pollutant

IX. Regulatory Information

Regulations under FIFRA: All pesticides are governed under FIFRA(Federal insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/ formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

OSHA HAZARD: Regulated

CERCLA REPORTABLE QUANTITY: None



SARA TITLE III STATUS:

- 302 Extremely Hazardous Substance: Not Listed
- 311/312 Hazard Categories: Immediate health hazard
- 313 Toxic Chemicals: Not Listed
- California Proposition 65 Status: Not Listed

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Category	Rating
Health	1
Flammability	1
Reactivity	1

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Revision Date:

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not “Hazardous” per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its activities comply with federal, state, and local laws and regulations. See MSDS for health and safety information.