

MATERIAL SAFETY DATA SHEET

IMIDACLOPRID

1. PRODUCT IDENTIFICATION

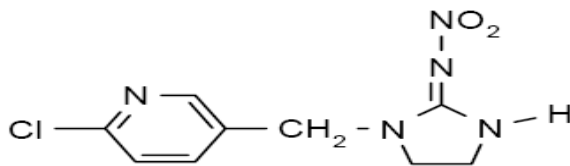
1.1 Product Details

PRODUCT NAME :IMIDACLOPRID

MOLECULAR FORMULA:C₉H₁₀ClN₅O₂

MOLECULAR WEIGHT : 255.66

STRUCTURAL FORMULA:



CHEMICAL NAME:1-((6-chloro-3-pyridinyl) methyl)- N-nitromm-2-imidazolidinimine

CHEMICAL CLASS:Neonicotinoid (systemic insecticide)

1.2Company Identification

Name: CHANGZHOU BOOMING CROP SCIENCE CO.,LTD

Address: NO.2, BUILDING 53,HUNDSUN SCIENCE &TECHNOLOGY PARK,BEITANGHE ROAD,TIANNING DISTRICT, CHANGZHOU, JIANGSU, CHINA

Telephone number: 86-519-68208602

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2. COMPOSITION / INFORMATION ON INGREDIENT

Composition	CAS-No.	Content(%)
Imidacloprid	138261-41-3	97.0 min
Other ingredient		3.0 max

3. HAZARD IDENTIFICATION

ACUTE EFFECTS

Physical hazards: None

Health hazards:

Eye: Light harm to eyes.

Skin :None irritating or sensitizing to skin.

Ingestion: Harmful if swallowed.

4. FIRST AID MEASURES

First Aid:

Swallowed: Provided the patient is conscious, wash out mouth with water. Vomiting should only be induced under the direction of a physician. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus. Immediately transport victim to an emergency facility.

Eye: Irrigate for 15 minutes with copious quantities of water with eyelids held open. If irritation persists, seek medical attention immediately.

Skin: Remove contaminated clothing. Flush skin with running water for a minimum of 20 minutes. If swelling, redness, blistering or irritation occurs seek medical attention immediately.

Advice to doctor: If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage; use endotracheal cuff if available, to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artificial resuscitation and appropriate chemotherapy if respiration is depressed. Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA :For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog. Contain run-off water with for example, temporary earth barriers.

Explosiveness : Will form dust explosive mixtures in air. Fire and Explosion Hazards : Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard.

Suitable Extinguishing Media: dry chemical, alcohol foam, water spray, carbon dioxide.

FIRE FIGHTING INSTRUCTIONS: Firefighters should wear self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind if possible. Keep out of low areas. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning.

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety: Personnel handling this material should be thoroughly trained to handle spills and releases. Wear appropriate gear for the situation. See Personal Protection information in Section 8. Cleanup and disposal of Spill: Sweep up and place in an appropriate closed container (see Section 7: Handling and Storage). No sparking tools should be used. Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. Collect washings for disposal. Decontaminate tools and equipment following cleanup.

Land Spill or Leaks: Containment of Spill: Stop leak if it can be done without risk. Follow procedure under Cleanup and Disposal of Spill.

7. HANDLING AND STORAGE

Keep out of reach of Children and animal.

Personnel handling this product should be thoroughly trained as to its hazards. Use nonsparking tools and grounded/bonded equipment and containers when transferring. Do not ingest. Do not breathe dust or mists. Avoid getting material on clothing. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.

Storing Procedures: Do not store in or around the home. Store the unused product in a cool, ventilated, dry, locked area. Never transfer this product to another container for storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Natural ventilation only required when handling the concentrate. A local exhaust should be used in confined areas to keep the level of solvent within acceptable limits.

Personnel Protection:

Eye protection : Safety glasses or goggles.

Clothing: Long sleeved shirt and long pants, shoes plus socks.

Gloves : Chemical resistant gloves.

Respirator : All pesticide handlers must wear a respiratory protection device when working.

User Safety Recommendations:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white powder

Acidity(as H₂SO₄ caculated): 0.5% max

Melting point: 143°C

Density: 1.543 g/cm³(20°C)

Vapour pressure (20°C): 200 mPa

Solubility in water (g/L, 20°C) : 0.61

10. STABILITY AND REACTIVITY

Stability: Stable under normal handling and storage conditions.

Condition to avoid: Keep away from heat. Keep away from sources of ignition, No smoking.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (14 days): Rat, Female, 50 mg/kg bodyweight<LD₅₀<300 mg/kg body weight, GHS category 3

Acute Dermal LD₅₀ (14 days): Rat, Male&Female, >2000 mg/kg

Inhalation rat LC₅₀ (4 hours): Rat, Male&Female, 5.01 mg/l

Skin Irritation (4 hours): Rabbit, Male&Female, Not irritating

Eye Irritation: Rabbit, Male&Female, Not irritating

Skin Sensitization: (Guinea pig) male, Not-sensitizing

12. ECOLOGICAL INFORMATION

Aquatic organisms:LC₅₀ (96 h) for rainbow trout 211 mg/l, golden orfe 237 mg/l.

Bird: Acute oral LD₅₀ for bobwhite quail 152, Japanese quail 31mg/kg;

Dietary LC₅₀ (5 d) for bobwhite quail 2225, and mallard ducks >5000 mg/kg.

Other Animals (Non-target species)

Bee: Imidacloprid is highly toxic to bees if used as a foliar application, especially during flowering, but is not considered a hazard to bees when used as a seed treatment.

Earth worms: Acute 14 days,LC₅₀ for Eisenia foetida 10.7mg/kg dry soil;

13. DISPOSAL CONSIDERATION

General Disposal Guidance: Do not contaminate water, food or feed by storage or disposal. Contamination with this product will render water, food or feed unfit for human or animal consumption.

Container Disposal: Triple rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty rinsed container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product,

14. TRANSPORT INFORMATION

UN. Number: 3077; Hazard Class: 9

Packing Group: III

15. REGULATORY INFORMATION

Symbol: T

R phrases: R23/25-48

S phrases: S2/7/9/13/36/39

16. OTHER INFORMATION

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