

MATERIAL SAFETY DATA SHEET

EMERALD 200SL

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

- * PRODUCT NAME: EMERALD 200SL
- * ADDRESS/ PHONE NO.: Jiangsu Tianrong Group Co., Ltd.
No. 147 Pingling East Road, Liyang City,
Jiangsu Province, China.
TEL: 86-519-87299384
FAX: 86-519-87299553
- * E-mail: js123@mail.hz.zj.cn
- * EMERGENCY PHONE NO.: 86-519-87299384

2. COMPOSITION/INFORMATION ON INGREDIENT

- * PRODUCT DESCRIPTION: Insecticide
- * C.A. NAME: 1-[(6-chloro-3-pyridyl)methyl]-N-nitro-2-imidazolidinimine
- * CAS RN: [138261-41-3]
- * HAZARDOUS INGREDIENT: Imidacloprid

3. HAZARDS IDENTIFICATION

- * TOXICITY CLASS: WHO (a.i.) II; EPA II
- * SIGNAL WORD: WARNING

4. FIRST-AID MEASURES

- * SKIN CONTACT: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
- * INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- * EYE CONTACT: Hold eye open and rinse slowly and gently with water for 15-20 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.
- * INHALED: Move person to fresh air. If person is not breathing, call a poison control center for help, then give artificial respiration, preferably mouth-to-mouth if possible.

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* FURTHER MEDICAL TREATMENT:

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital, or the nearest Poison Control Center.

5. FIRE-FIGHTING PROTECTIVE EQUIPMENT

* EXTINGUISHING MEDIA: Use foam, carbon dioxide, dry chemical or water spray to extinguish fires.

* FIRE FIGHTING PROTECTIVE EQUIPMENT: Use positive-pressure self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

* SPILLAGES: Keep away from all ignition sources Ventilate the spill area. Avoid breathing vapor. Use self-contained breathing apparatus or air-line respirator for large spills in confined areas. Dike the spill with inert material (sand, earth, etc.) and transfer the liquid or solid diking material to separate containers for recovery or disposal. Remove the contaminated clothing promptly and wash exposed skin areas with soap and water. Wash clothing before reuse.

* UNCONTROLLED DISCHARGE: Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory.

7. HANDLING AND STORAGE

* STORAGE AND HANDLING: Keep out of the reach of children. Do not get in eyes, on skin, or clothing. Avoid breathing vapor and spray mist. Users should wash hands before eating, drinking, using tobacco, or using the toilet. For handling relative to the end-use of this product, read the product label. Store in original container in a dry storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE CLOTHING: Use chemical splash goggles. Eye protecting worn must be compatible with respiratory production system employed. Use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Items, which cannot be decontaminated, such as shoes, belts, and watchbands, should be removed, destroyed, and disposed of.

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9. PHYSICAL AND CHEMICAL PROPERTIES

- * APPEARANCE: White powder with a weak characteristic odour
- * MELTING POINT: 142-146°C.
- * VAPOR PRESURE: 4×10^{-7} mPa (20 °C calc.)
- * S.G/DENSITY: 1.54 g/cm³ (23 °C)
- * SOLUBILITY: In water 0.61 g/l (pH 6.1, 25°C). In dichloromethane 67, acetone 50, acetonitrile 50 (all in g/l, 20°C).
- * STABILITY: Stable to hydrolysis at pH 5-11
- * FLAMABLE LIMITS: Not applicable
- * AUTOIGNITION TEMPERATURE: Not autoignition.
- * EXPLOSIVE PROPERTIES: Non-explosive.
- * OXIDISING PROPERTIES: Non-oxidizing

10. STABILITY AND REACTIVITY

- * STABLE: YES
- * CONDISITONS TO AVOID: NONE
- * HAZARDOUS POLYMERIZATION: NO
- * POLYMERIZATION: Will not occur.
- * HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures of fire may produce irritating gases & vapors.

11. TOXICOLOGICAL INFORMATION

- * SKIN CONTACT: Acute percutaneous LD₅₀ for rabbits >5000 mg/kg. Non-irritating to skin (rabbits).
- * EYE CONTACT: Not an eye irritant (rabbits)
- * INGESTION: LD₅₀ for rats 430 mg/kg
- * INHALATION: LC₅₀ (4 h) for rats > 0.069 mg/l
- * ADI (JMPR) 0.06 mg/kg b.w. (JMPR)
- * Other: Non-mutagenic in the Ames test.

12. ECOLOGICAL INFORMATION

- * TOXICITY FOR FISH, BIRDS, BEES, DAPHNIA
 - Birds: LD₅₀ in mallard ducks 270.2, bobwhite quail 146.1 mg/kg.
 - Fish: LC₅₀ (96h) for carp 274.5, rainbow trout 202.3 mg/l.

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Bees: High toxic to bees. LD₅₀ (contact, 48h) 8.0 ng/bee

Daphnia: EC₅₀ (48 h) 75.7 mg/l.

Algae: EC₅₀ (96h) >100 mg/l

13. DISPOSAL CONSIDERATIONS

Large amounts should be incinerated at high temperature in a unit with effluent gas scrubbing. When no incinerator is available, bury in an approved dump, or in an area where there is no risk of contamination of surface or groundwater. Before burying, liberally mix with sodium carbonate crystals, to help neutralize the product, and with soil rich in organic matter. Comply with any local legislation.

14. TRANSPORT INFORMATION

Take with care. Keep locked up. Keep away from fire. Do not contaminate water, food, or feeds by stage or disposal.

15. REGULATORY INFORMATION

Imidacloprid is a moderately hazardous compound in EPA toxicity class II. Products containing Imidacloprid must bear the Signal Word WARNING on the label because some formulated products may have higher toxicities. It is a General Use Pesticide (GUP).

GENERAL COMMENTS: Read label. Contact your State Pesticide of Environment Control Agency, of the Hazardous Waste representative at the nearest EPA Regional Office on guidance for disposal. Do not contaminate water, food or feed by disposal. Open dumping is prohibited. Dispose of container in an approved waste facility.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the product in terms of its safety requirements. The data does not signify and warranty with regard to the product's properties.

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