

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – IDENTIFICATION OF PRODUCT & COMPANY

**Product Name:** Force Gel 2.15% gel

**Active Ingredient:** Imidacloprid

**Chemical Name:** (2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine

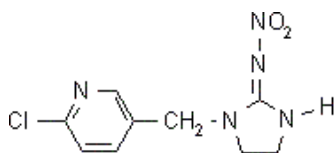
**Chemical Type (Organophosphate, Carbamate, Pyridil, etc):** Neonicotinoid

**Formulation (WP, EC, FG, DP, GB, etc)/Concentration (g/l, g/kg):** Imidacloprid 2.15% PC

**Molecular weight:** 255.7

**Molecular formula:** C<sub>9</sub>H<sub>10</sub>ClN<sub>5</sub>O<sub>2</sub>

**Structural formula:**



**Use Category (Insecticide, Herbicide, Fungicide, others.):** Insecticide

**Mode of action (Contact, Stomach, Systemic, etc.):** systemic insecticide with translaminar activity, contact and stomach action.

**CAS Number:** 138261-41-3

**Classification by Hazard (WHO Classification):** W.H.O II

## COMPANY DETAILS

Company name: Jiangsu Easthigh Pests Control Co Ltd

Company Address: Rm 105, Apartment Bldg, No. 319 East Zhongshan Road, Nanjing, China

Contact: Ms. Jenny

Telephone: 85 26 84664353

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Website: [www.pestscontrolling.com](http://www.pestscontrolling.com)

## **SECTION 2 – COMPOSITION**

<b>Ingredients</b>	<b>CAS No.</b>	<b>Content %</b>
Imidacloprid	138261-41-3	2.15
Enticement, Flavouring & water	-	97.85
<b>Total</b>		<b>100%</b>

## **SECTION 3 – PHYSICAL & CHEMICAL PROPERTIES**

1. **Appearance/Form:** Gel
2. **Odour:** Weak characteristic
3. **Colour:** Light brown
4. **PH :** 6.0-7.0
5. **Boiling Point:** Not applicable
6. **Flash Point:** 200° C
7. **Density:** 1.1-1.2 g/ml
8. **Water solubility:** 0.5 g/l

## **SECTION 4 – HAZARD IDENTIFICATION**

Eye: Causes moderate eye irritation

Skin: May cause slight irritation

Ingestion: Harmful

## **SECTION 5 – FIRST AID MEASURES**

### **Eyes**

Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

### **Skin**

Wash material off the skin with plenty of soap and water. If redness, itching or a burning sensation develops, get medical attention.

### **Swallowed**

Provided the patient is conscious, wash out mouth with water. Vomiting should only be induced under the direction of a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water.

### **Inhaled**

Remove victim to fresh air. Apply artificial respiration if breathing has ceased or shows signs of failing. Obtain medical attention.

### **Medical advice**

Treat symptomatically

## **SECTION 6 – FIRE FIGHTING MEASURES**

Keep out of smoke, cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing equipment. Contain runoff to prevent entry into sewers or waterways. Equipment or materials involved in pesticide fires may become contaminated.

## **SECTION 7 – ACCIDENTAL RELEASE MEASURES**

Isolate area and do not walk through spilled material.

Avoid contact with skin. Wear proper protective equipment. Dike contaminated area with absorbent granules, soil, sand, etc. Material should be recovered. Carefully sweep up absorbed spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers or other waterways or contact vegetation.

## **SECTION 8 – HANDLING & STORAGE**

### **SAFE HANDLING ADVICE:**

Do not get on skin or clothing. Avoid contact with eyes. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

### **REQUIREMENTS FOR STORAGE ROOMS:**

Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Containers should be stored in a cool, dry, well ventilated area away from flammable materials and sources of heat or flame. Exercise due caution to prevent damage to or leakage from the container

## **SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

Eye/face protection: safety glasses

Hand protection: Chemical resistant gloves

Body protection: Long-sleeved shirt and long pants. Shoes and socks

Respiratory protection: Clean water and soap should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions.

## **SECTION 10 – STABILITY & REACTIVITY**

Stability: Stable under normal storage condition

Hazardous polymerization: Will not occur

Conditions to avoid: High temperature

Hazardous reactions (materials to avoid): Strong oxidizing agents

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity: LD<sub>50</sub> (rat) 450 mg/kg

Acute Dermal Toxicity: LD<sub>50</sub> (rat) > 5000 mg/kg

Acute Inhalation Toxicity: LC<sub>50</sub> (rat) > 5323 mg/m<sup>3</sup> (4 h)

Skin Irritation: Non irritant. (rabbit)

Eye Irritation: Non irritant. (rabbit)

Sensitization: Non-sensitizing. (guinea pig)

## **SECTION 12 – ECOLOGICAL INFORMATION**

### Birds

LD<sub>50</sub> for Japanese quail: 31 mg/kg

LD<sub>50</sub> for bobwhite quail: 152 mg/kg

LC<sub>50</sub> (5d) for bobwhite quail: 2225 mg/kg

LC<sub>50</sub> (5d) for mallard ducks : >5000 mg/kg

### Fish

LC<sub>50</sub> (96h) for rainbow trout: 211 mg/l

LC<sub>50</sub> (96h) for golden orfe: 237 mg/l

### Other aquatic spp.

LC<sub>50</sub> (48h) for Daphnia: 85 mg/l

ErC<sub>50</sub> for algae >100 mg/l

### Bees

Harmful to bees by direct contact.

### Worms

LC<sub>50</sub> for eisenia foetida 10.7 mg/kg dry soil.

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds.

## **SECTION 14 – TRANSPORT INFORMATION**

UN number: 2588

## **SECTION 15 – REGULATORY INFORMATION**

Safety advice: avoid release to the environment.

## **SECTION 16 – OTHER INFORMATION**

### **DISCLAIMER**

Information contained in this material safety data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer / seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. This information is intended to describe safety requirements and not to be taken as warranty implied in respect of the adequacy of this document.

AUGUST 2015