



# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Imidacloprid Technical  
CAS No : 138261-41-3  
Use : Insecticide  
Company Info : M/s HPM Chemicals & Fertilizers Ltd  
209-210, Anupam Bhawan, Commercial Complex  
Azadpur, Delhi-110033  
Telephone : (011)-45071800, 899  
Fax : (011)- 27681800  
Website : [www.hpmindia.com](http://www.hpmindia.com)  
E-mail : [info@hpmindia.com](mailto:info@hpmindia.com)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition	Concentration
Imidacloprid a.i.	95.00% min.
Other associates impurities	05.00% max

## 3. HAZARDS IDENTIFICATION OF PREPARATION

**Major Health Hazards:** The onset of symptoms varies depending upon such factors as the route of absorption and quantity involved. In patients with occupational poisoning, skin symptoms usually develop within 4-6 hours after exposure, with systemic symptoms occurring as late as 48 hours after exposure. Paraesthesia of the facial skin can develop approximately 30 minutes after exposure and does not usually last beyond 24 hours when exposure is terminated. Following ingestion, the initial symptoms involve the gastrointestinal tract, developing 10-60 minutes after exposure. Patients suffering from acute oral poisoning usually develop prominent digestive symptoms such as epigastric pain, nausea and vomiting. Severely poisoned patients may have frequent convulsive attacks, coma, or pulmonary oedema. The prognosis is good if treated, with usually full recovery even in severely poisoned patients. (The hospitalisation period is usually longer than 4 weeks). **Safety**

**Phrase(s):** S2: Keep out of the reach of children.

S13: Keep away from food, drink and animal foodstuffs.

S23: Do not breathe vapour/mist.

S36/37: Wear suitable protective clothing and gloves.

**Poisons Schedule:** S6 Poison.

### Potential Health Effects

#### Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic "Exposure Standards for Atmospheric Contaminants in the Occupational Environment".



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### Acute Effects:

**Swallowed:** Data suggests that this product is harmful if swallowed.

**Eye:** This product is mildly irritating to the eyes. It is likely to cause mild discomfort such as watering and redness of the eyes. However, this should quickly disappear once exposure is over.

**Skin:** Data suggests that this product may be absorbed through the skin and be harmful by skin absorption. Major skin exposure may lead to health problems. May be a weak skin sensitiser.

**Inhalation:** Data suggests that this product is harmful if inhaled. Minor or short-term exposure may lead to short term health problems, although long-term exposure may lead to permanent health problems.

### 4. FIRST AID MEASURES

- Skin Contact** : Remove contaminated clothing and shoes immediately. Wash contaminated area with soap or mild detergent and large amount of water until no effects of chemical remains. If symptoms persists get medical help.
- Eye Contact** : Irrigate the eyes with large amount water or normal saline occasionally lifting upper and lower lids until no evidence of chemical remains and obtain a medical help.
- Ingestion** : Remove by gastric lavage and catharsis, maintain blood pressure and airway, Give oxygen if respiration is depressed. Do not perform gastric lavage if victim is victim is unconscious. Get medical attention immediately.
- Inhalation** : Remove the patient from the exposure area to fresh air immediately. If breathing has stopped perform the artificial respiration. Keep person warm and rest. Get medical attention immediately.

### 5. ACCIDENTIAL RELEASE

- Personal Preparation** : Avoid contact with skin, eyes and clothing.
- Environmental Precautions** : Prevent contamination of soil, drains and surface water.
- Method of cleaning** : Absorb the material in the sand, soil, diatomaceous earth or suitable absorbent. Place in suitable material and remove to safe place or dispose of in an incinerator approved for chemicals.

### 6. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** : Dry chemical, CO<sub>2</sub>, Water spray, standard foam.

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<b>Exposure Hazards</b>	:	For larger fire, use water spray, fog or standard foam. During a fire, irritating and possibly toxic gases like carbon dioxide; carbon monoxide; nitrogen oxides; sulfur dioxide; hydrogen chloride; may be generated by thermal decomposition or combustion
<b>Fire-Fighting</b>	:	Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate non essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

### 7. HANDLING AND STORAGE

<b>Handling</b>	:	Use appropriate (impervious) clothing, gloves and closed foot ware to prevent the repeated contact with skin. Use flash proof and dust resistant goggles to prevent the contact with eyes.
<b>Storage</b>	:	Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well ventilated place under lock and key; away from the reach of the children, animals, food and animal feeding stuffs. Store away from the incompatible substances and source of ignition

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Technical protective measures</b>	:	None
<b>Exposure controls limits</b>	:	Not Established
<b>Respiratory protection</b>	:	Wear suitable mask
<b>Hand protection</b>	:	Wear impervious gloves
<b>Eye protection</b>	:	Wear flash proof and dust resistant goggles.
<b>Skin protection</b>	:	Wear impervious clothing and closed foot ware.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Off-white powder  
**Odor:** Weak characteristic



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pH: 6.73

Flashpoint (PMA-4): N/A

Melting Point: 290.5°F (143.6°C)

Bulk Density: 0.844 g/ml

Solubility in Water: Dispersible

### 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Avoid temperatures over 100°F (38°C) for extended periods of time. Strong exothermal reaction can occur at temperatures above 390°F (200°C).

**CHEMICAL STABILITY:** Stable but may decompose if heated.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride and oxides of nitrogen and carbon.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known.

**POLYMERIZATION:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE ORAL TOXICITY

Oral LD50 (rat): 425-475 mg/kg

#### ACUTE DERMAL TOXICITY

Dermal LD50 (rat): > 5,000 mg/kg

#### ACUTE INHALATION TOXICITY

Inhalation LC50 (rat): > 5.33 mg/L

#### EYE IRRITANT

Rabbit – Non-Irritating

#### SKIN IRRITATION

Rabbit – Non-Irritating

#### SENSITIZATION

Guinea Pig – Not a Contact Sensitizer

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

#### CARCINOGENICITY:

**ACGIH:** Not listed

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**MUTAGENIC DATA:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**ADDITIONAL DATA:** Not known to cause reproductive or birth defects at normal exposure levels.

### 12 ECOLOGICAL INFORMATION



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This product is highly toxic to aquatic invertebrates; keep out of water bodies.  
This product is extremely toxic to bees exposed either directly or through residues on treated crop; do not apply to or allow to drift to blooming crops that bees may visit.

### 13. DISPOSAL CONSIDERATION

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed on site (by use according to the label) or at an approved waste disposal facility. Further information can be obtained from the EPA or the equivalent state and local agencies.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Check with EPA, State, and local authorities for the current regulations applicable to your area for disposal of waste containers.

### 14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by DOT

DOT HAZARD CLASS OR DIVISION: N/A

DOT UN/NA NUMBER: N/A

DOT PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

MARINE POLLUTANT: Not Listed

DOT EMERGENCY RESPONSE GUIDE: N/A

### 15. REGULATORY INFORMATION

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

**SARA Title III – Section 302 Extremely Hazardous Substances**

Not Listed

**SARA Title III – Section 311/312 Hazard Categories**

Immediate

**SARA Title III – Section 312 Threshold Planning Quantity**

N/A

**SARA Title III – Section 313 Reportable Ingredients**

None

**CERCLA –**

None Listed

**CALIFORNIA PROP 65 STATUS –**

Not listed

### 16. OTHER INFORMATION



## **MATERIAL SAFETY DATA SHEET**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.