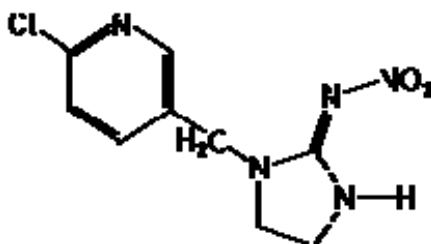


# MATERIAL SAFETY DATA SHEET

## IMIDACLOPRID 95% TC

### 1. Chemical Product Information

Product Name: Imidacloprid  
 Molecular Formula: C<sub>9</sub>H<sub>10</sub>ClN<sub>5</sub>O<sub>2</sub>  
 Molecular Weight: 255.7  
 Structural Formula:



Chemical Name:  
 1-(6-chloro-3-pyridin-3-ylmethyl)-N-nitroimidazolidin-2-ylideneamine (IUPAC)  
 CAS No.: 138261-41-3  
 UN NO.: 2588

Manufacturer: Changzhou Good-Job Biochemical Co., Ltd  
 Add: No. 398, Middle Tongjiang Road, Xinbei District, Changzhou, Jiangsu, China  
 Phone Numbers: Tel: 86-519-85153978 Fax: 86-519-85153975

### 2. Composition Information on Ingredients

Composition	CAS No	Content (%)
Imidacloprid	138261-41-3	95.0 min
Other ingredients	-	5.0 max

### 3. Hazards Identification

Component	Symbol	R phrases
Imidacloprid	T	R23/25-48

### 4. First Aid Measures

*Skin:* Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

*Eyes:* First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

*Inhalation:* Move affect person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

*Ingestion:* Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

*Notes to physician:* No specific antidote if ingested. Treat symptomatically.

## **5. Fire-Fighting Measures**

Extinguishing media

To be used: Water, carbon dioxide, dry chemical and foam.

Don't use: Not applicable

Particular risk: None

Measures of personal protection: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

## **6. Accidental Release Measures**

Personal cautions: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Cleaning methods:

The empty container may be decontaminated by rinsing two or three times with water and detergent and scrubbing the sides.

Environmental cautions:

Prevent the contamination of the floor and the beds of water.

## **7. Handling and Storage**

Handling: Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks.

Storage: Store at normal temperatures, away from children, domestic animals, food and feed products, seed and fertilizer. Do not contaminate other stored products or the storage area by handling or storage of this product. Keep in a well-ventilated room.

## **8. Exposure Controls / Personal Protection**

Personal protective equipment

Respiratory protection: Approved respirator

Protective gloves: Rubber gloves

Eye protection: Safety goggles or face shield.

Industrial hygiene: Adequate ventilation.

## **9. Physical And Chemical Properties**

Appearance: Colourless crystals, with a weak characteristic odour.

Melting point: 143.8°C.

Density: 1.54g/ml (20°C);.

Water solubility: 0.61g/L (20°C)

Other solubility: in Dichloromethane: 67 g/L (20°C)

in Toluene: 0.69 g/L (20°C)

in n-Hexane: 0.1 g/L (20°C)

in Propanol: 2.3 g/L (20°C)

PH value: acidity: ≤0.5%;

Flash point: non-inflammable

### 10. Stability and Reactivity

Conditions to avoid: flame, fire and high temperature.  
 Products to avoid: incompatible with alkaline pesticides;  
 Thermal decomposition: N/A;  
 Hazardous decomposition products: nitride, chloride, carbon dioxide.  
 Hazardous reaction: Not applicable

### 11. Toxicological Information

Acute oral for rats: LD<sub>50</sub> = 450 mg/kg b.w. (M, F)  
 Acute dermal for rats: LD<sub>50</sub> > 2000 mg/kg b.w. (M, F)  
 Inhalation for rats: LC<sub>50</sub> (4 h) > 1500 mg/m<sup>3</sup>  
 Irritation (based on studies with rabbits)  
 Eye: NON-IRRITANT  
 Skin: NON-IRRITANT  
 Sensitisation - (guinea pigs).  
 Skin: NOT A SENSITISER  
 Signs and Symptoms of Poisoning: Although no account of human poisoning was found in the literature, signs and symptoms of poisoning would be expected to be similar to nicotinic signs and symptoms, including fatigue, twitching, cramps, and muscle weakness including the muscles necessary for breathing.

#### Effects for chronic toxicity:

Reproductive: A three generation reproduction study in rats fed up to 700 ppm imidacloprid resulted in a NOEL of 100 ppm (equivalent to 8 mg/kg/day) based on decreased pup body weight observed at the 250 ppm dose level.

Carcinogenicity: Imidacloprid is considered to be of minimal carcinogenic risk, and is thus categorized by EPA as a "Group E" carcinogen (evidence of noncarcinogenicity for humans). There were no carcinogenic effects in a 2-year carcinogenicity study in rats fed up to 1,800 ppm imidacloprid.

Sensitization: not a skin sensitizer (guinea pigs);

### 12. Ecological and Ecotoxicological Information

Fish LC<sub>50</sub> 96 hour:

Rainbow trout	211 mg/L
Carp	280 mg/L
Golden orfe	237 mg/L

Birds Acute LD<sub>50</sub>:

Bobwhite quail	152 mg/kg diet
Japanese quail	31 mg/kg diet

Other species:

Daphnia magna	EC <sub>50</sub> (48h)	85.2 mg/L
	NOEC (21 days)	1.8 mg/L
Algae	EC <sub>50</sub> (72h)	10 mg/L
Bees	LD <sub>50</sub> (oral)	0.0037 µg/bee
Earthworm	LC <sub>50</sub> (14 days)	10.7 mg/kg

### 13. Disposal Considerations

Material which can not be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and Local regulations. If burned, stay out of smoke. Do not contaminate water supplies by disposal of wastes or containers.

### 14. Transport Information

Class: 6.1  
UN NO.: 2588

### 15. Regulatory Information

Symbol: T  
R phrases: R23/25-48  
S phrases: S2/7/9/13/36/39

### 16. Other Information

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.