

Material Safety Data Sheet

Imidacloprid 10% WP

1. Chemical Product / Company Identification

Product name: Imidacloprid 10% WP

Active Ingredient: Imidacloprid

Manufacturer: Shanghai Tenglong Agrochem Co., Ltd.

Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai

Phone Numbers: Tel: 86-21 5506 3225

Fax: 86-21-5506 3699

2. Composition/Information on Ingredients

Components	CAS Number	%(w/w)
Imidacloprid	138261-41-3	10%
Other ingredients	-	to 100%

3. Hazard identification

Physical/chemical hazards: Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist.

Environmental hazards: Very toxic to bees and silkworm.

Inhalation: Harmful.

4. First Aid Measures

If inhaled: Move person to fresh air. If person is not breathing, call 120 or an ambulance, seek medical attention.

If ingestion: If individual is conscious, wash out mouth with water, seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

If on skin: Remove contaminated clothing. Wash skin and hair thoroughly; do two soap and water washings. Wash skin and contained clothes with soap and copious amounts of water.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Note to Physician: No specific antidote is available. Treat the patient symptomatically.

Shanghai Tenglong Agrochem Co., Ltd www.tlongagro.com

Tel: (86)21-55063225 Fax: (86)21-55063699

Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT have the product container or label with you when calling a poison control center or doctor.

5. Fire Fighting Measures

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

Special Fire Fighting Procedures: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Hazardous thermal decomposition and combustion products: Toxic fumes may be emitted in a fire situation (NO_x).

Protection of fire-fighters: Fire-fighters must wear self contained breathing equipment and impervious clothing.

6. Accidental Release Measures

Personal Precautions: Wear appropriate protective gear for the situation. The product is harmful if inhaled or swallowed. Will irritate the eyes, nose, throat and skin. Keep people and animals away and upwind. Use rubber gloves and eye/face protection and use respirator.

Environmental Precautions: prevent the contamination of the floor and of beds of water.

Cleaning methods: Sweep up with sand or vermiculite and place into appropriate container for disposal. Ventilate and wash spill area and wash it with water.

7. Handling and Storage

Handling: All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Keep out of reach of children. Avoid contact with the eyes, skin and clothing and avoid inhalation of product or spray mist. If in eyes, wash it immediately with water. After handling and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Do not contaminate food or use on household tanks.

Storage: Store in the closed, original container in a dry, cool, well-ventilated area, room temperatures. Keep away from heat and sources of ignition. Store in locked room or place away from children, animals, food, animal feed, seed and fertilizers.

8. Exposure Controls/Personal Protection

Respiratory Protection: Use NIOSH/MSHA approved respirator appropriate for exposure of concern.

Eye Protection: Chemical goggles.

Protective Clothing: Rubber gloves, respirator, boots, long sleeved shirt or jacket, long pants.

9. Physical and Chemical Properties

Active ingredient: Imidacloprid

Content: 10%

Chemical formula: $C_9H_{10}ClN_5O_2$

Molecular weight: 255.7 g/mol

Appearance: Dark yellow powder.

10. Stability and Reactivity

Conditions To Avoid: Heat and ignition.

Stability: Stable under normal conditions.

Polymerization: Will not occur.

Hazardous decomposition products: toxic gases, such as Hydrogen fluoride, Nitrogenoxides
Carbon monoxide, Carbon dioxide.

Incompatibility: alkaline pesticides.

11. Toxicological Information

Acute oral for rats: LD50 = 450 mg/kg b.w. (M, F)

Acute dermal for rats: LD50>2000 mg/kg b.w. (M, F)

Inhalation for rats: LC50 (4 h) >1500 mg/m³

Irritation (based on studies with rabbits)

Eye: NON-IRRITANT

Skin: NON-IRRITANT

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 Information

Fish LC₅₀ 96 hour:

Rainbow trout 211 mg/L

Carp 280 mg/L

Shanghai Tenglong Agrochem Co., Ltd www.tlongagro.com

Tel: (86)21-55063225 Fax: (86)21-55063699

Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai

Golden orfe 237 mg/L

Birds Acute LD₅₀:

Bobwhite quail 1 52 mg/kg diet

Japanese quail 31 mg/kg diet

Other species:

Daphnia magna EC₅₀ (48h) 85.2 mg/L NOEC (21 days) 1.8 mg/L

Algae EC₅₀ (72h) 10 mg/L

BeesLD₅₀ (oral) 0.0037 µg/bee

EarthwormLC₅₀ (14 days) 10.7 mg/kg

13. Disposal Considerations

All chemical waste is considered acutely toxic. 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. Transportation Information

Class: 6.1

UN NO.: 2588

15. Regulatory Information

There is no special information for it.

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.