



MATERIAL SAFETY DATA SHEET

PRODUCT : IMIDACLOPRID 70% WG

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name : Imidacloprid 70% WG

Grade : Formulation

Active Ingredient : Imidacloprid

Chemical Name of Active Ingredient (IUPAC) : (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine

Chemical Family of A. I. : Chloronicotinyl Nitroguanidine

Molecular Formula of A. I. : $C_9H_{10}ClN_5O_2$

Molecular Mass of A. I. : 255.661g/mol

Manufacturer & Supplier : **M/s PERFECT SOLUTIONS**
Office Add: B-371, Paschim Vihar, New Delhi - 110063 (India)
Factory Add: 15/1, 15/2, 15/3 Industrial Estate, Vidisha - 464001 (M.P)

Telephone Number : +91 8375844625

Section 2. Composition / Information on Ingredients

Identity	% W/W content
Imidacloprid, a.i.	70.00
Other additives	Q. S to make to 100.00%

Section 3. Hazards Identification



Emergency Overview

Warning Statements: Keep out of reach of children

Potential Health Effects Likely Routs of Exposure: Skin contact, Inhalation and Ingestion.

Eye Contact: Mild irritant.

Skin contact: May be harmful if absorbed through skin.

Ingestion: Harmful if swallowed

Section 4. First Aid Measures

Inhalation: If experiencing any discomfort, immediately remove to fresh air and obtain medical advice if discomfort does not disappear.

Skin contact: Remove contaminated clothing and shoes. Wash with plenty of water and soap. Get medical attention if irritation develops.

Eye contact: Immediately flush with plenty of water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and flush again. Get medical attention if irritation develops.

Ingestion: Immediately dilute by drinking milk. If not available drink water. Do not induce vomiting. If vomiting occurs, drink fluids again. Call a doctor or get medical attention.

Note to Physician: There is no specific antidote against this substance. Treatment is symptomatic and supportive.

Section 5. Fire Fighting Measures

Flammability: Not flammable.

Suitable extinguishing media: Foam, dry chemical, carbon dioxide.

Special firefighting procedures: Keep out of smoke. Fight fire from upwind position. Cool closed containers/tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike area to prevent runoff and contamination of water sources. Wear self-contained breathing apparatus and full firefighting turn-out gear (Bunker gear).

Hazardous decomposition products: Thermal decomposition or combustion may produce gases such as hydrogen chloride, hydrogen cyanide, and oxides of carbon and nitrogen.

Section 6. Accidental Release Measures



Accidental Release Measures Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

In case of spills **Small spills:** Sweep or vacuum up spillage and collect in suitable container for disposal. **Large spills:** Prevent further leakage or spillage. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal.

Section 7. Handling & Storage

Handling

Read label carefully before use. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Keep children and pets off treated area until spray is dry.

Storage

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco product in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and after handling.

Other precautions do not contaminate water, food, or feed by storage or disposal.

Section 8. Exposure Control, Personal Protection

Eye protection all pesticide handlers must wear protective eyewear when working in a non-ventilated space or when applying termiticide by rodding or sub slab injection.

Skin protection Long-sleeved shirt, long pants, shoes plus socks. Chemical resistant footwear and overalls. Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC), or Viton.

Ingestion Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.



Breathing protection a respirator is not normally required when handling this substance.

Use effective engineering controls to comply with occupational exposure limits.

Other protective clothing or equipment Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Section 9. Physical and Chemical Properties

Appearance / state	:	Light brown Colour granules
Odour	:	Mild Odor
pH	:	6.0 to 7.0
Density	:	NA
Flash Point	:	NA

Section 10. Stability & Reactivity

Chemical stability	:	Stable at normal temperature and pressure.
Hazardous polymerization	:	will not occur
Conditions to avoid	:	Avoid dust formation.
Hazardous decomposition products	:	Thermal decomposition can lead to the release of carbon dioxide, nitrogen oxides, and carbon monoxide.

Section 11. Toxicological Information

Acute Oral toxicity	:	LD50 rat: >981 mg/kg
Dermal toxicity	:	LD50 rat: > 5000 mg/kg
Inhalation toxicity	:	LC50 (4 h) rat: 2.91 mg/L
Skin irritation	:	Non irritant – rabbit
Eye irritation	:	Non irritant– rabbit



Sensitization : Non sensitizer

Section 12. Ecological Information

Birds	Acute oral LC50 for Japanese quail 31 mg/kg Bobwhite quail 152 mg/kg Dietary LC50 (5 d) bobwhite quail 2225 mg/kg Mallard ducks >5000 mg/kg
Fish	LC50 (96 h) for Golden orfe 237 mg/l, Rainbow trout 211 mg/l
Bees	Harmful to honey bees by direct contact, but no problems expected when not sprayed into flowering.

Section 13. Disposal Consideration

Waste Disposal Method Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal law. Pesticide, mixtures, or equipment rinse water that cannot be chemically reprocessed must be disposed of according to applicable federal, state or local regulations. Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

Container disposal method Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

Section 14. Transport Information

Shipping name	: PESTICIDE, SOLID, TOXIC, N.O.S
Class	: 6.1
Packing group	: III
UN number	: 2588
Marine pollutant	: Yes

Section 15. Regulatory Information



EU- Classification

Hazard Symbol Xn Harmful

Risk Phrases (R-Phrases) R22, R52/53

Safety Phrases S61

Section 16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

Safety Division: PERFECT SOLUTIONS, SAFETY DIVISION