

MATERIAL SAFETY DATA SHEET

PRODUCT : Imidacloprid 30.5% SC

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. : 255.7g/mol
Manufacturer & Supplier : M/s United Chemicals
B-371, 1st Floor, Meera Bagh, New Delhi
Telephone Number : +91-11-25258770

Section 2. Composition / Information on Ingredients

Identity	% W/W content
Imidacloprid a. i.	30.5 %w/w min.
Other Ingredients	Q.S % w/w max.
Total	100.00% w/w

Section 3. Hazards Identification

Ingestion Harmful if swallowed

Inhalation Avoid inhalation of dust

Eye Irritation Mild Irritant

Skin Irritation May be harmful if absorbed through skin

Section 4. First Aid Measures

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.

Skin contact: Remove contaminated clothing and shoes. Wash with plenty of water and soap. 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.

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

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, cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing equipment. Contain run-off by diking to prevent entry into sewers or waterways. Equipment or materials involved in pesticide fires become contaminated.

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

Spill of Leak Procedures Isolate area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing Vapors and skin contact. Wear proper protective equipment. Dislike contaminated area with absorbent granules, soil, sand, etc. If large spill, material should be recovered. Small spills can be absorbed with Absorbent granules, spill control pads, or any absorbent material. 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 7. Handling & Storage

Storage temperature (min/mix) None/30 day average not to exceed 100 F.

Shelf life Time temperature-dependent, contact CWFPL for specific information.

Special sensitivity Not established

Handling /storage precautions Store in a cool dry are designated specifically for pesticides. Do not store near any material Intended for use or consumption by humans or animals.

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	: Liquid
Colour	: White to off white
Odour	: Slight Characteristics
Melting point	: NA

Vapour pressure	:	4 x10 ⁻⁹ Pa at 200 C , 9 x10 ⁻⁹ Pa at 250 C
pH	:	6 - 8
Relative Density	:	1.15

Section 10. Stability & Reactivity

Stability : YES

In compatibilities : With Oxidizing agents.

Conditions to avoid : Avoid excessive heat & flame.

Materials to avoid : Avoid contact with strong oxidizing agents.

Section 11. Toxicological Information

Acute Oral ToxicityLD50 (Rat) > 300 - < 2,000 mg/kg

Acute Dermal ToxicityLD50 (Rat) > 2,000 mg/kg

Acute InhalationLC50 (Rat) > 2.743 mg/l, exposure time 4 hr

Eye IrritationModerately -irritant

Skin Irritant Moderately -irritant

Skin sensitization Guinea pig: Non-sensitizer

Section 12. Ecological Information

Birds NA

Fish LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l Exposure time: 96 h

Daphnia EC50 (Daphnia magna (Water flea)) 85 mg/l Exposure time: 48 h

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

IMDG Classification

Shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID,N.O.S
Class : 9
Packing group : III
UN number : 3082

Section 15. Regulatory Information

EU- Classification Hazard Symbol Xn Harmful

Risk Phrases (R-Phrases) **R22** Harmful if swallowed
R52/53Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Advice (S- Phrases) **S61** Avoid release to the environment.
Refer to special instructions/safety data sheet

International WHO Toxicity Classification II Highly Toxic/hazardous

Section 16. Other Information

The information provided in this MSDS is of general nature not specific for a particular purpose or situation, and believed to be correct and faithful. United Chemicals does not make any warranty or guarantee of any kind regarding fitness or completeness of information. United Chemicals disclaims any liability to the result(s) obtained or arising out of any use of the product or reliance or data/information contained in this MSDS.

Safety Division :UNITED CHEMICALS, SAFETY DIVISION