

MATERIAL SAFETY DATA SHEET

PRODUCT : Imidacloprid 48% FS

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name : Imidacloprid 48% FS
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**
Head office: B-371, 1st Floor, Meera Bagh, New Delhi,
Factory: 15/1, 15/2, 15/3, Industrial Estate, Vidisha, (M.P)
Telephone Number : +91-11-25258770

Section 2. Composition / Information on Ingredients

Identity	% W/W content
Imidacloprid a. i.	48.00 % 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

Suitable Extinguishing Media Use

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which should not be used for safety reasons High Volume Water Jet.

Special protective equipment for fire-fighters In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal precautions Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

Environmental precautions Do not allow to get into surface water, drains and ground water.

Methods for Cleaning Up Soak up with inert absorbent material (e.g. sand, silica gel), Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

Section 7. Handling & Storage

HANDLING Use only in area provided with appropriate exhaust ventilation.

STORAGE Requirements for storage areas and containers:

- Keep containers tightly closed in a dry, cool and well-ventilated place.

- Store in a place accessible by authorized persons only.
- Store in original container.
- Keep away from direct sunlight. Advice on common storage:
- Keep away from food, drink and animal feeding stuffs.

Section 8. Exposure Control, Personal Protection

Respiratory protection No personal respiratory protective equipment normally required.

Hand protection Dependant on activity; Wear suitable chemical resistant safety gloves. Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet. **Eye protection** Wear safety goggles with side-shields or full-face shield.

General safety & Hygiene measures: Keep away from food, drink and animal feed stuff. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Wash contaminated clothing before re-use.

Section 9. Physical and Chemical Properties

Appearance / state	: White to light beige suspension
Colour	: White to light beige
Odour	: Slight Characteristics
Melting point	: NA
Partition Coefficient	: NA
pH	: 5-9
Water Solubility	: Misicble

Section 10. Stability & Reactivity

Hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

Section 11. Toxicological Information

Acute: Oral toxicity LD50 rat: > 200 to < 2000 mg/kg

Dermal toxicity LD50 rat: > 4000 mg/kg

Inhalation toxicity LC50 rat: > 1.86 mg/L aerosol (4 hour)

Skin irritation not irritating (rabbit)

Eye Irritation Not irritating (rabbit)

Sensitization Sensitizing (guinea pig)

Section 12. Ecological Information

Birds Acute oral LD50: 31 mg/kg; Japanese quail

Acute oral LD50: 152 mg/kg; bobwhite quail

Fish LC50: 211 mg/L (96 h); rainbow trout (*Oncorhynchus mykiss*)

Daphnia 85 mg/L (48 h) *Daphnia magna*

Section 13. Disposal Consideration

Product disposal

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Container disposal

Not completely emptied packaging's should be disposed of as hazardous waste.

Section 14. Transport Information

IMDG Classification

Shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S.

Class : 6.1

Packing group : III

UN number : 2902

Marine pollutant : Yes

Section 15. Regulatory Information

EU- Classification Hazard Symbol Xn Harmful

Risk Phrases (R-Phrases) **R22** Harmful if swallowed
R52/53 Harmful 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

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