

### MATERIAL SAFETY DATA SHEET

PRODUCT : IMIDACLOPRID 20SL

PRODUCT DESIGNATION : Insecticide

#### Section 1. Product & Company Identification

Common Name : Imidacloprid  
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. : 255.661 g/mol  
Manufacturer & Supplier : M/s United Chemicals  
B-371, 1<sup>st</sup> Floor, Meera Bagh, New Delhi  
Telephone Number : +91-11-25258770

#### Section 2. Composition / Information on Ingredients

Identity	CAS RN	% W/W content
Tricyclazole, a.i.	-	20.00
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:** Slight irritant.

**Skin contact:** Non irritant.

**Ingestion:** No specific health effects are known for ingestion of a small amount incidental to routine hand use.

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### Section 4. First Aid Measures

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**If poisoning occurs, immediately contact a doctor or Poisons Information Centre and follow the advice given. Show this Material Safety Data Sheet to a doctor.**

**Inhalation:** Remove patient to fresh air. Keep rested and warm.

**Skin contact:** Remove patient's clothing and wash skin thoroughly with soap and water.

**Eye contact:** Irrigate eyes immediately with copious quantities of water for 15 minutes.

**Ingestion:** Give plenty of water to drink. Never give anything by mouth to an unconscious person. Seek medical assistance.

**First Aid Facilities:** Provide washing facilities in the workplace.

**Symptoms Include:** apathetic state, depressed muscular tone, respiratory disturbance and trembling. Muscular cramps are also possible in severe cases of poisoning.

**Medical attention** Treat symptoms (nicotine-like effects). No specific antidote known. Check blood pressure and pulse frequently since bradycardia and hypotension are possible. Provide supportive measures for the respiratory function and cardiac action. Give artificial respiration if signs of paralysis appear. Additional therapeutic measures involve elimination of the substance from the body or acceleration of its excretion (gastric lavage, saline laxatives). Contra-indications: Absorption promoting agents such as alcoholic beverages and milk.

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### Section 5. Fire Fighting Measures

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**Extinguishing media** Water spray, carbon dioxide, foam, dry chemical.

#### **Hazards from Combustion products**

In the event of a fire the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.

#### **Precautions for fire fighters**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (AS1716:2000). Do not release contaminated water into the environment.

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### Section 6. Accidental Release Measures

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Wear suitable protective clothing and boots. Prevent spill from entering drains, sewers or any body of water. Contain and absorb with sand, earth or inert absorbent material. Fill along with any contaminated material into sealable containers for disposal at an approved

local waste disposal site. Clean affected area with an aqueous detergent and a small amount of water. On completion of clean-up remove and wash all protective clothing and equipment with detergent and water. Any heavily contaminated clothing should be placed in a plastic garbage bag and placed in a sealable drum. Do not smoke, eat or drink during cleanup operation.

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## Section 7. Handling & Storage

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### Handling

Keep out of reach of children. Very dangerous. Poisonous if absorbed by skin contact, inhaled or swallowed. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. If product or spray in eyes washes it out immediately with water. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles, respirator (if rubber, wash with detergent and warm water) and contaminated clothing.

### Storage

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Keep away from all ignition sources. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

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## Section 8. Exposure Control, Personal Protection

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**Exposure standards** No exposure standards have been assigned by Worksafe Australia for the active ingredient or the excipients in the formulation.

**Engineering controls** Not applicable

### Personal Protective Equipment

**Eyes:** Avoid contact with eyes.

**Clothing:** Avoid contact with skin. Wear cotton overalls buttoned to the neck and wrist and a washable hat. Wear waterproof gloves.

**Respiratory:** Avoid inhaling spray mist.

**Other:** Do not eat, drink or smoke until after washing. Wash thoroughly after handling. After each day's use wash gloves and contaminated clothing.

### Section 9. Physical and Chemical Properties

Appearance / state	:	Pale yellow liquid.
Odour	:	Characteristic
Boiling point	:	NA
Vapour pressure	:	2 x 10 <sup>-9</sup> mbar at 20°C
pH	:	4.0 to 7.0
Density	:	1.12
Flash Point	:	Minimum 88°C
Flammable Limits	:	Not Flammable

### Section 10. Stability & Reactivity

<b>Chemical stability</b>	:	Stable under normal conditions of use.
<b>Hazardous polymerization</b>	:	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	:	Extreme heat
<b>Incompatible materials</b>	:	Avoid oxidizing agents
<b>Hazardous decomposition products</b>	:	In the event of fire, the formation of hydrogen Chloride, Hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.
<b>Hazardous Reactions</b>	:	none

### Section 11. Toxicological Information

Inhalation of the liquid formulation is unlikely.

Skin contact Repeated exposure may cause some irritation. Unlikely to be a skin sensitizer.

Eye contact May be a slight eye irritant.

Ingestion Harmful if swallowed. Symptoms of intoxication that may arise if the product is mishandled include: apathetic state, depressed muscular tone, respiratory disturbance and trembling. Muscular cramps are also possible in severe cases of poisoning.

#### ANIMAL TOXICITY DATA – PRODUCT

Acute Oral toxicity	:	LD50 rat: > 2000 mg/kg
Dermal toxicity	:	LD50 rat: > 5000 mg/kg
Inhalation toxicity	:	LC50 (4 h) rat: 6.0 mg/L

**Admn. Off. :** B-371, 1st Floor, Meera Bagh, Delhi-110063 (India)  
Ph. : 25258770, 25258771, 25258772, 42334229

**E-mail :** utc\_chemicals@hotmail.com  
info@unitedchemicals.in

Skin irritation : Not irritating – rabbit  
Eye irritation : Not irritating – rabbit  
Sensitization : Non sensitizer

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### Section 12. Ecological Information

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Acute Oral Toxicity in Birds: LC50 211 mg/L (96 h) rainbow trout LC50 237 mg/L golden orfe

Acute Toxicity Honey bees: Dangerous to bees

Acute Toxicity in Bobwhite quail: >100 mg/k body weight

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### Section 13. Disposal Consideration

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Follow Avcare guidelines. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for the purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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### Section 14. Transport Information

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The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Toxic substances under the applicable, ICAO/IATA, IMO, ADG.

#### IMDG Classification

Shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S  
Class : 6.1  
Packing group : III  
UN number : 2902  
Marine pollutant : Yes

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### Section 15. Regulatory Information

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EU- Classification

Hazard Symbol                      Xn      Harmful

Safety Phrases                      S13, S20/S21, S24, S25, S28 and S36/37

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### Section 16. Other Information

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Preparation information:

Reason for update: Conversion to 16 heading format.

Data sources Data in 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.

**Safety Division : UNITED CHEMICALS, SAFETY DIVISION**

**Date of preparation: June, 2020**

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