

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



SAFETY DATA SHEET

Imidacloprid 17.8% SL

1. Chemical Product and Company Identification

- **Product Name:** Imidacloprid 17.8% SL
- **Chemical Name:** (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine
- **Molecular Formula:** $C_9H_{10}ClN_5O_2$
- **CAS Number:** 138261-41-3
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Composition / Information on Ingredients

Chemical Name	CAS Number	Percentage (w/w)
Imidacloprid a.i.	138261-41-3	17.80%
Other Ingredients	-	82.20%

3. Hazards Identification

- **Ingestion:** Not expected to cause harm in small amounts, but large quantities may cause toxicity.
- **Inhalation:** Avoid excessive inhalation during field spraying; may irritate the respiratory system.
- **Eye Contact:** No significant eye irritation expected.
- **Skin Contact:** Minimally toxic and non-irritating.

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



4. First Aid Measures

- **Eye Contact:**
 - Flush eyes with lukewarm water or saline solution for **20 minutes**.
 - Seek medical attention if necessary.
 - **Skin Contact:**
 - Remove contaminated clothing, wash affected area thoroughly with soap and water.
 - **Ingestion:**
 - Rinse mouth with water.
 - If vomiting occurs, provide additional water to assist dilution.
 - **Inhalation:**
 - Remove victim to fresh air and keep warm.
 - Seek medical advice if symptoms persist.
-

5. Fire-Fighting Measures

- **Flash Point:** 88°C
 - **Extinguishing Media:** Carbon dioxide (CO₂), dry chemical, foam, water fog.
 - **Fire and Explosion Hazard:**
 - Fire may produce **toxic fumes (oxides of carbon, nitrogen, hydrogen chloride)**.
 - **Protective Equipment:** Wear self-contained breathing apparatus (SCBA).
-

6. Accidental Release Measures

- **Small Spills:**
 - Sweep up with **damp earth, sand, or absorbents (sawdust, etc.)**.
 - Avoid creating dust clouds.
 - Store in **sealed containers** for disposal.

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



- **Large Spills:**

- Contain the spill and prevent entry into **drains, soil, or water bodies**.
- Contact the manufacturer for large-scale spills.

7. Handling and Storage

- **Handling Precautions:**

- Ensure **adequate ventilation** during handling.
- Wash hands before **eating, drinking, smoking, or using cosmetics**.

- **Storage Conditions:**

- Store in a **dry, well-ventilated area**.
- Keep away from **food, drinks, and animal feed**.
- Protect from **extreme temperatures (below 0°C or above 40°C)**.

8. Exposure Controls / Personal Protection

- **Eye Protection:** Safety goggles or face shield.
- **Skin Protection:** Impervious gloves, long-sleeved clothing.
- **Respiratory Protection:**
 - In **laboratory settings:** Use a fume hood.
 - In **field applications:** Use a **respirator with organic vapor cartridges**.

9. Physical and Chemical Properties

Property	Value
Appearance	Colorless to yellow liquid
Odor	Mild, characteristic

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



Property	Value
Relative Density	1.13 g/mL
Solubility in Water	0.61 g/L at 20°C
pH (1% solution)	6.8 - 7.2
Melting Point	144°C

10. Stability and Reactivity

- **Stability:** Stable under normal conditions but degrades under high heat or moisture.
- **Incompatible Materials:** Strong oxidizing agents and acids.
- **Decomposition Products:** Oxides of carbon, nitrogen, and hydrogen chloride.

11. Toxicological Information

Toxicity Parameter	Result
Acute Oral LD50 (Rat)	480 mg/kg (Male), 650 mg/kg (Female)
Acute Dermal LD50 (Rat)	>5000 mg/kg
Acute Inhalation LC50 (Rat, 4h)	>5.9 mg/L
Eye Irritation (Rabbit)	Non-irritant
Skin Irritation (Rabbit)	Non-irritant
Skin Sensitization (Guinea Pig)	Non-sensitizer

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



12. Ecological Information

- **Bird Toxicity:**
 - **Acute Oral LD50 (Japanese Quail): 31 mg/kg**
 - **Acute Oral LD50 (Bobwhite Quail): 152 mg/kg**
 - **Dietary LC50 (5 days, Bobwhite Quail): 2225 mg/kg**
 - **Dietary LC50 (Mallard Ducks): >5000 mg/kg**
- **Fish Toxicity:**
 - **LC50 (96h, Golden Orfe): 237 mg/L**
 - **LC50 (96h, Rainbow Trout): 211 mg/L**
- **Bee Toxicity:**
 - **Harmful to honey bees if directly applied to flowers.**
 - **LD50 (24h, Oral): 0.008 µg/bee.**

13. Disposal Considerations

- **Waste Disposal:**
 - Dispose of **contaminated materials and waste** in accordance with local, state, and federal regulations.
 - **Avoid contamination of water sources.**
 - **Container Disposal:**
 - Do **not reuse empty containers.**
 - Rinse and dispose of as per **hazardous waste guidelines.**
-

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



14. Transport Information

Transport Mode	Classification
UN Number	2588
Proper Shipping Name Pesticide, Liquid, Toxic, N.O.S.	
Hazard Class	6.1 (Toxic Substances)
Packing Group	III

15. Regulatory Information

- **EU Classification:**
 - **Xn - Harmful**
 - **N - Dangerous for the environment**
 - **Risk Phrases (R-Phrases):**
 - **R22:** Harmful if swallowed.
 - **R50/53:** Very toxic to aquatic organisms.
 - **Safety Phrases (S-Phrases):**
 - **S13:** Keep away from food, drinks, and animal feed.
 - **S20/21:** Do not eat, drink, or smoke while handling.
 - **S24:** Avoid skin contact.
 - **S36/37:** Wear protective clothing and gloves.
-

16. Other Information

- **WHO Classification: Class II (Moderately Hazardous)**