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MATERIAL SAFETY DATA SHEET

MSDS No: MSDS/IMI/FG-011

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ProductName : **ImidaclopridTechnical**

IUPAC Name : (E)-1-(6-chloro-3-pyridyl)methyl
-N-nitroimidazolidin-2-ylideneamine.

Manufacturer / Supplier : **Bharat Rasayan Limited**
1501, Vikram Tower, Rajendra Place,
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2. Composition / Information on ingredients

Chemical Name	CAS#	Percent or content (w/w)
Imidacloprid Technical	138261-41-3	94.00 %
Other ingredients	-	6.00 %

3. Health Hazards Identification

Ingestion Harmful if swallowed.

Inhalation Avoid inhalation of dust.

Eye irritation Mild Irritant

Skin irritation May be harmful if absorbed through skin.

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.

5. Fire Fighting Measures

Flammability Not flammable

Suitable extinguishing media Foam, dry chemical, carbon dioxide.

Special fire fighting 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 fire fighting 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.

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.

7. Handling and Storage

Handling Information 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 information 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.

8. Exposure Controls/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.

9. Physical and Chemical Properties

Appearance	white to cream color powder
Odour	Mild odour
pH	6.38
Water solubility	0.61g/lit at 20°C

10. Stability and Reactivity

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

11. Toxicological Information

Acute Oral Toxicity	LD50 (Rats) 981 mg/kg
Acute Dermal Toxicity	LD50 (Rabbits) >5000 mg/kg

Acute Inhalation	LC50 (rats): >2.919 mg/L
Eye Irritation	Rabbit: Non-irritant
Skin Irritant	Rabbit: Non-irritant
Skin sensitization	Guinea pig: Non-sensitizer

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 crop or when used as a seed treatment. LD50 : 0.0084 g/bee

13. Disposal Considerations

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.

14. Transport Information

14.1 UN number ADR/RID: 3077 IMDG: 3077 IATA: 3077

14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Imidacloprid)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Imidacloprid)

IATA: Environmentally hazardous substance, solid, n.o.s. (Imidacloprid)

14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards ADR/RID: yes IMDG Marine pollutant: no IATA: yes

14.6 Special precautions for user

Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids

15. Regulatory Information

EU- Classification Xn Harmful

Hazard Symbol

Risk Phrases (R-Phrases)	R22 R52/53	Harmful if swallowed Harmful to aquatic organisms, may cause long-term diverse 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

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. **Bharat Rasayan Limited** does not make any warranty or guarantee of any kind regarding fitness or completeness of information. **Bharat Rasayan Limited** disclaims any liability to the result(s) obtained or arising out of any use of the product or reliance on data/information contained in this MSDS.

Prepared by: Bharat Rasayan Limited: EHS Department

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