



H.O. : 101 / 102, Kanchanganga, Factory Lane, Borivli (West), Mumbai - 400 092, INDIA.

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Marketing Office : 201/202, Dwarkesh, Above Tribhuvandas Bhimji Jhaveri, L. T. Road, Borivli (W), Mumbai - 400 092. INDIA.

Tel. : 91-22-2833 8443 / 44 / Fax : 91-22-2833 8445 / e-mail : heranba@vsnl.com

MATERIAL SAFETY DATA SHEET **IMIDACLOPRID 2.15% GEL**

1. IDENTIFICATION OF THE SUBSTANCE:

Product name: IMIDACLOPRID 2.15% GEL

Chemical group Neonicotinoid

Use: Insecticide.

Formulation GEL

Supplier: Heranba Industries Limited

2. COMPOSITION/INFORMATION ON INGREDIENTS:

COMPONENT	CAS NO.	CONCENTRATION (% w/w)
Imidacloprid	138261-41-3	2.15
Inert ingredients		97.85

3. HAZARD IDENTIFICATION:

Emergency Overview

Caution! Causes eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Routes of Exposure: Ingestion, Eye contact, Skin contact

Immediate Effects

Eye: Causes eye irritation. Avoid contact with eyes.

Skin: May cause slight irritation. Avoid contact with skin and clothing.

Ingestion: Do not take internally.

4. FIRST AID MEASURES:

General When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Skin: Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion: Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

5. FIRE FIGHTING MEASURES:

Autoignition Temperature: not applicable

Lower flammability limit no data available

Upper Flammability Limit no data available

Explosiveness: Not explosive



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Fire and Explosion Hazards: In the event of fire the following can be released:

carbon monoxide (CO)

Suitable Extinguishing Media: Water spray, Carbon dioxide (CO₂), Foam, Sand

Fire Fighting Instructions:

Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

Keep out of smoke. Fight fire from upwind position.

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

6. ACCIDENTAL RELEASE MEASURES:

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

Methods for Cleaning Up: The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled then the following advice is applicable. Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional Advice

Information regarding personal protective equipment see section 8. Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE:

Handling Procedures: Use only in area provided with appropriate exhaust ventilation.

Storing Procedures: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Keep away from food, drink and animal feedingstuffs.

Work/Hygienic

Procedures: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove soiled and/or soaked clothing immediately and clean thoroughly before using again. Then wash thoroughly and put on clean clothing.

Min/Max Storage Temperatures:

Do not transport or store above 38 °C / 100 °F

The 30-day storage temperature average must not exceed the recommended maximum.



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8. EXPOSURE CONTROL/PERSONAL PROTECTION:

General Protection: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

Train employees in safe use of the product. Follow all label instructions.

Eye/Face Protection: Safety glasses

Hand Protection: Chemical resistant nitrile rubber gloves.

9. PHYSICO CHEMICAL PROPERTIES:

Appearance: Off white to light yellow

Physical State: gel

Odor: weak characteristic

pH; 4.5 (5 %)

Specific Gravity: 1.2 at 20 °C

Density: approx. 1.2 g/cm³ at 20 °C

Water solubility: miscible

10. STABILITY AND REACTIVITY:

Conditions to Avoid: no data available

Incompatibility: no data available

Hazardous Decomposition Products: No hazardous decomposition products known.

Hazardous Reactions: No hazardous reactions when stored and handled according to prescribed instructions.

Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION:

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient, imidacloprid.

Acute Oral Toxicity: male/female combined rat: LD50: > 5,000 mg/kg

Acute Dermal Toxicity: male/female combined rat: LD50: > 5,000 mg/kg

Acute Inhalation Toxicity: Not Applicable. No possibility of drift or off-placement desposition of the product from crack and crevice use since the formulation is a thick, syrup-based paste and the active ingredient is non-volatile (vapor pressure = 1.5E10(-9) mm @ 20°C).

Skin Irritation rabbit: Mild skin irritation.

Eye Irritation rabbit: Minimally irritating.

Sensitization guinea pig: Non-sensitizing.

Chronic Toxicity: Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats and dogs.

Assessment Carcinogenicity: Imidacloprid was not carcinogenic in studies in rats and mice

12. ECOTOXICOLOGICAL INFORMATION:

Toxicity to Fish Rainbow trout (*Oncorhynchus mykiss*) LC50: 211 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient imidacloprid.



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Toxicity to Aquatic Plants:

Desmodesmus subspicatus Growth rate

EC50: > 10 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient imidacloprid.

Acute Toxicity to Aquatic Invertebrates

Water flea (Daphnia magna)

EC50: 85 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient imidacloprid.

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

13. DISPOSAL CONSIDERATIONS:

General Disposal Guidance: Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Follow advice on product label and/or leaflet.

Container Disposal: Do not re-use empty containers. Wrap and discard in trash.

14. TRANSPORT INFORMATION:

UN Number 3077

Class 7

Packing Group III

Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(IMIDACLOPRID MIXTURE)

15. REGULATORY INFORMATION:

PCP Registration No. 27605

US Federal Regulations

TSCA list: None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D): None.

SARA Title III - Section 302 - Notification and Information: None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting: None.

16. DISCLAIMER:

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.