



SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HARVEST PRID 350
 ACTIVE: **IMIDACLOPRID 350g/L**
 REGISTRATION HOLDER: HARVEST CROP SOLUTIONS (PTY) LTD.
 DISTRIBUTOR: HARVEST CHEMICALS (PTY) LTD.
 ADDRESS: 25 DAN PIENAAR ROAD
 KLOOF, KWAZULU-NATAL
 3610
 REPUBLIC OF SOUTH AFRICA
 CONTACT NUMBER: +27 (0) 31 764 6315
 EMERGENCY NUMBER: +27 (0) 82 442 1134

1. CHEMICAL PRODUCT

Product name : NovaPrid 350 SC
Active ingredient: Imidacloprid

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition	CAS No.	Content % W/V
Imidacloprid	138261-41-3	35 min
Other ingredients		65 max

3. HAZARDS IDENTIFICATION

Main hazard :
 Poisonous when absorbed through the skin or swallowed or inhaled.
Skin contact :
 Causes skin irritation.
Eye contact :

May cause mild eye irritation.

Inhalation :

Poisonous when inhaled.

Ingestion :

Poisonous if swallowed.

4. FIRST AID MEASURES

Symptoms of human poisoning:

In severe cases of poisoning the patient may experience an apathetic state, depressed muscular tone, respiratory disturbances and trembling and muscular cramps.

If swallowed: If swallowed, immediately contact a poison control centre, doctor or nearest hospital for treatment advice. Rinse mouth with water. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control centre. If spontaneous vomiting occur, avoid contamination of respiratory passages.

If in eyes: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. After the first 5 minutes check for and remove contact lenses. Call a Poison Information Centre or doctor for treatment advice.

If on skin or clothing: Remove contaminated clothing. Rinse skin immediately with plenty of water and soap for 15 – 20 minutes. If available wash with polyethyleneglycol 400 and rinse with water. Wash clothing thoroughly before re-use.

If inhaled: Move patient to fresh air and keep at rest. Call a doctor immediately.

Notes to Physician: Treatment should include elementary aid, decontamination and symptomatic treatment. Monitor the respiratory and cardiac functions. Gastric lavage is not normally required. If more than a mouthful of NovaPrid 350 SC has been ingested, administer activated charcoal and sodium sulphate.

Medical Condition Likely to be aggravated by Exposure: None known.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazard:

Minimise the use of water to prevent environmental contamination.

Hazardous Products of Combustion:

During a fire, irritating and possibly toxic gases such as carbon monoxide, sulphur dioxide, nitrogen oxides and hydrogen chloride may be generated by thermal decomposition or combustion.

Extinguishing Media:

Water, foam, dry chemical and carbon dioxide (CO₂).

In Case of Fire:

Use appropriate extinguishing media for combustibles in the area. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Decontaminate equipment after use. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff. Prevent runoff to enter sewers, waterways, rivers or dams.

Flash Point (Test Method): > 110 °C

Flammable Limits (% in Air): Lower: % Not Applicable **Upper:** % Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear appropriate personal protective equipment as specified in Section 8.

Environmental Precautions:

Small Spill:

Absorb with sand, soil or other absorbent material. Scrub the spill area with detergent and water. Minimise the use of water to prevent environmental contamination.

Large Spill:

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, observing precautions outlined in Section 8.

Cover entire spill with absorbing material and place into compatible disposal container. Rinse the spill area with strong industrial detergent and water. Collect wash water with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

7. HANDLING AND STORAGE

Handling:

Avoid contact with skin, eyes and clothing.

Do not eat, drink or smoke while handling this product.

Remove contaminated clothing immediately and change into clean clothes. Wash clothing before re-use.

Remove Personal Protective Clothing immediately after handling this product. Clean outside of gloves before removing it.

Wash thoroughly with soap and water after handling. Change into clean clothes.

Dispose of wash water where it will not contaminate crops, grazing, dams or rivers.

Storage:

Store in a well-ventilated, secure area out of reach of children, uninformed persons and animals.

Store in closed, labeled containers.

The product is stable at normal storage conditions at temperatures between -10 °C to 40 °C.

Protect product against heat and cold extremes.

Minimum Shelf Life: 2 years

Do not store food, beverages or tobacco products in the storage area.

The product can form explosive mixtures with air. Avoid dust formation and take precautionary measures against static discharge.

Keep away from sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Where eye contact is likely, use chemical splash goggles.

Emergency Eye Wash: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower for emergency use.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks, apron and chemical-resistant footwear.

Inhalation: A combination particulate/organic vapor respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an HE prefilter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Off-white
Odor:	Slight characteristic smell
pH:	4.0 – 7.0 (1% aqueous solution)
Specific gravity:	1.19 at 20° C
Flash point:	> 110 °C

10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Avoid heat, sparks, flames and other sources of ignition.
Materials to Avoid:	Incompatible with strong oxidizing agents.
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic vapors such as carbon monoxide, sulphur dioxides, nitrogen oxides and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Acute oral LD₅₀ 1361 mg/kg

Dermal: Acute dermal LD₅₀ for rats: > 5000mg/kg

Inhalation: Acute inhalation LC₅₀ (4 hr) > 6.04 mg/ℓ

Skin Contact: not an irritant (Rabbit)

Eye Contact: slightly irritating (Rabbit)

Skin Sensitization: Non sensitizing (Guinea Pig)

12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION

Eco-Acute Toxicity for Imidacloprid *technical material*:

Birds: Acute oral LD₅₀ Japanese quail: > 150 mg/kg
Mallard duck: > 5000 mg/kg

Fish: Acute LC₅₀ (96 h) Rainbow trout: > 200 mg/ℓ
Zebra fish: > 100 mg/ℓ

Daphnia: LC₅₀ (48 h): 85 mg/ℓ

Algae: EC₅₀ (7 d): > 100 mg/ℓ for *Scenedesmus subspicatus*

Bees: LD₅₀ (48 h): 6.2 ng/bee

13. DISPOSAL CONSIDERATIONS

Product: Dispose of as hazardous waste. Burn in controlled high temperature incinerator with effluent gas scrubbing. Keep out of drains, sewers, ditches and water ways.

Container: Container and packages must be completely emptied before being disposed of. Shake out thoroughly into the mixing tank before destroying the empty container by perforation and flattening and do not re-use for any other purpose.

Dispose of product containers, waste containers, and residues according to local, regional, national and international regulations.

14. TRANSPORT INFORMATION

Shipping name: Environmentally hazardous substance, liquid, n.o.s.

Road and Rail Transport

UN No.: 3082

Class: 9

Packaging Group: III

Marine Transport

UN No.: 3082

Class: 9

Packaging Group: III GGVSee/IMDG-

Cod.: Not available Marine

Pollutant: Marine Pollutant

Air Transport

UN No.: 3082

Class: 9

Packaging Group: III

15. REGULATORY INFORMATION

Hazard classification

Class 9

Hazard category

Xn: Harmful

N: Environmental hazard

Risk phrase(s)

R22: Harmful if swallowed.

R23/24: Toxic by inhalation and in contact with skin.

R51: Toxic to aquatic organisms.

Safety phrase(s)

S22: Do not breathe dust. S24:

Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29: Do not empty in drains.

S37: Wear suitable gloves.

S39: Wear eye / face protection.

S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.