



MATERIAL SAFETY DATA SHEET

PRODUCT : ACETAMIPRID 200SP
EFFECTIVE DATE : June 2007
REVISION NO : 0
PAGES : 5

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

- Product Name : ACETAMIPRID 200SP
- Common Name : Acetamiprid
- Chemical Name (IUPAC) : (E)-N¹-[(6-chloro-3-pyridyl)methyl]-N²-cyano-N¹-methylacetamidine.
- Supplier : NOVA AGRO (HK) LTD.
28/F Tesbury Centre
28 Queen's Road East
Wanchai
HONG KONG
- Tel : 00263 4 704173
- National Poison Centre (South Africa) : (27) 0 800 333 444

2. COMPOSITION / INFORMATION ON INGREDIENTS

- Cas No. : [135410-20-7]
- Chemical Family : Acetamidine
- Chemical Formula : C₁₀H₁₁ClN₄
- Use : Insecticide
- Symbols : Xn
- Risk-Phrase(s) : R₂₀/ R₂₂

3. HAZARDS IDENTIFICATION

- Toxicity class : Class II. Moderate oral and low dermal and inhalation toxicity.
- Likely routes of exposure : Ingestion, inhalation.
- Eye contact : Non-irritating
- Skin contact : Non-irritating.
- Ingestion : Toxic if ingested.
- Inhalation : Toxic if inhaled.

4. FIRST AID AND MEDICAL MEASURES AND PRECAUTIONS

- Inhalation:** Remove victim to fresh air. If not breathing, give oxygen. Obtain medical attention.
- Skin contact:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.
- Eye contact:** Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

- Ingestion:** Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce VOMITING. Never give anything by mouth to an unconscious person. See a medical doctor immediately.
- Advice to physician:** Acetamiprid is moderately toxic by inhalation or ingestion. Treatment must be symptomatic. In cases of severe intoxication, therapy should include sedative and anti-convulsant (e.g. barbiturates, diazepam, paraldehyde, etc.). If large quantity has been swallowed, unless the patient is vomiting, gastric lavage should be performed using 5% sodium bicarbonate solution, followed by powdered activated charcoal.

5. FIRE FIGHTING MEASURES

- Fire and explosion:** Non-combustible.
- Extinguishing agents:** Foam, CO₂, or dry chemical. Soft stream water fog only if necessary. Contain all runoff.
- Fire fighting:** Isolate fire area. Evacuate down wind. Do not breathe smoke, gases, or vapours generated.
- Personal protective equipment:** Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precaution:** Keep unnecessary people away. Isolate hazard area and deny entry. Do not smoke. Avoid contact and inhalation of the product. Ventilate closed spaces before entering.
- Environmental precaution:** Avoid dispersion. Acetamiprid is of low toxicity to fish and bees. In case of accidental spill, prevent the material from getting into lakes, rivers and other bodies of water. Isolate discharged material and keep material out of water sources. Prevent product from entering drains. Do not graze or feed clippings from treated areas to livestock.
- Occupational spill:** Wear protective equipment.
Small spillages: Absorb on inert absorbing material such as sand or clay. Shovel up into covered containers for disposal
Large spillages: Should be dammed off and pumped into containers; soak up remainder with absorbent material and dispose of in accordance with local regulations.



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6. HANDLING AND STORAGE REQUIREMENTS

- **Handling:** Do not smoke, drink or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Before removing gloves, wash them with soap and water. Good personal hygiene procedures must be practiced.
- **Storage:** Store in a cool, dry, well-ventilated place. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Personal protective equipment:

Respirator: For splash, mist, or spray exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides. Respirator use and selection must be based on airborne concentrations.

Clothing: Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC rain suit. Leather items – such as shoes, belts and watchbands – that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

Gloves: Wear chemical protective gloves made of materials such as nitrile, neoprene etc. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

Eye protection: For splash, mist, or spray exposure, wear chemical protective goggles or a face shield.

Emergency eye-wash: Where there is any possibility that a worker's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

8. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Off-white powder
- Odour : None.
- Explosive properties : Non-explosive.
- Oxidising properties : Non-corrosive.

- pH : 6-8 (20°C, 5% sol.)
- Viscosity : N.a.
- Surface tension : N.a.
- Relative density : 1.330g/kg (20°C)
- Storage stability : Stable for at least two years under normal storage conditions.
- Suspensibility : Within specifications.
- Dilution stability : Relatively stable. Do not keep mixture overnight.
- Solubility in water : 4200 mg/litre.
- Solubility in organic solvents : Soluble in various organic solvents.
- Partition-coefficient in n-octanol /water : N.a.
- Flash point : N.a.
- Boiling point : N.a.

9. STABILITY AND REACTIVITY

- **Stability:** Stable for a min. of 2 years under normal storage conditions.
- **Incompatibility:** Incompatible with alkaline materials.
- **Thermal decomposition:** High thermal stability.

10. TOXICOLOGICAL INFORMATION

- Acute oral LD₅₀ : Rats (female) 146 (Tech.)
- Acute dermal LD₅₀ : Rats >2000 (Tech.)
- Acute inhalation LC₅₀ : Rats (4h) 0.29 mg/l (Tech.)
- Acute skin irritation : Non-irritating to skin.
- Acute eye irritation : Non-irritating to eyes.
- Dermal sensitisation : Not a skin sensitizer.
- Carcinogenicity : Acetamiprid was found not to be carcinogenic in rats or mice.
- Teratogenicity : Acetamiprid was found to be non-teratogenic in rats and rabbits.
- Mutagenicity : Acetamiprid is non-mutagenic.

11. ECOLOGICAL INFORMATION

- **Degradability:** Acetamiprid degrades quickly in soils, primarily by biological processes. It also degrades readily in natural waters.
- **Mobility:** Acetamiprid is adsorbed very strongly on soil particles, especially in soils containing large amounts of clay or organic matter. Movement in the soil is therefore extremely limited and downward leaching of the parent molecule through the soil does not occur under normal conditions of use.



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- **Accumulation:** Acetamiprid does not accumulate in the environment.
- **Ecotoxicology:**
- Birds : Slightly toxic. Oral LD₅₀ value is 180mg/kg for bobwhite quail.
- Fish : Low toxicity. LC₅₀ value for carp is >100 mg/l.
- Bees : N.a.
- Daphnia : LC50 (3-6h) >1000 mg/l.
- Algae : Not available.
- Earthworms : Not available.

12. DISPOSAL CONSIDERATION

- **Pesticide disposal:** Open dumping or burning of this material or its packaging is prohibited. If spilled material can not be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state, and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate regulatory agencies should be contacted prior to disposal.
- **Container disposal:** Non-returnable containers which held this material should be cleaned, prior to disposal, by triple-rinsing. Containers which held this material may be cleaned by being triple-rinsing and recycled, with the rinsate being incinerated. Do not cut or weld metal containers. Vapours that form may create an explosion hazard.

13. TRANSPORT INFORMATION

- UN Number : 2588
- ADR/IRD : 6.1
- IMDG/IMO : 6.1
- ICAO/IATA : 6.1
- Packing Group : II
- ROAD/RAIL : Label: Pesticide, solid, toxic.
- AIR/IATA : Label: Pesticide, solid, toxic.
- SEA : Label: Pesticide, solid, toxic.

14. REGULATORY INFORMATION

- Symbols : H, N
- Indication of danger : Harmful; dangerous to the environment

Risk phrases:

- R20/22 : Harmful by inhalation and if swallowed.

Safety phrases:

- S2 : Keep out of reach of children.
- S36/37 : Wear suitable protective clothing and gloves.
- S45 : Seek medical advice immediately in case of an accident or if you feel unwell.
- S61 : Avoid release to the environment.

15. PACKING AND LABELING

Packed in UN-approved 500g, 1kg and 5kg sealed polyethylene or aluminium bags in a carton or fibre drum.

16. REFERENCES

- *The Pesticide Manual*; 13th Edition; Editor Clive Tomlin; Crop Protection Publications, 2003.
- *Pestline*. Material Safety Data Sheets for Pesticides and Related Chemicals; Volume II; Occupational Health Services Inc., 1991.
- *Agriculture and Public Health*; Guide to the Treatment of Poisoning by Chemicals, 1993.
- CALIFORNIA EPA, DEPT. OF PESTICIDE REGULATION, MEDICAL TOXICOLOGY BRANCH. SUMMARY OF TOXICOLOGY DATA. NOVEMBER, 2000.

ACETAMIPRID 200SP

A soluble powder systemic, contact and stomach insecticide for the control of aphids on tobacco and aphids and white fly on cotton.

Reg. No.: 19-D-166-79

<u>Composition</u>	<u>mass/mass</u>
Acetamiprid.....	200g/kg
Inert ingredients	to 1kg

Chemical group: chloro-nicotinyl

50g Net



POISON

**INSECTICIDE FOR
AGRICULTURAL USE**

Manufactured by:

NOVAAGRO (HK) LTD
6TH FLOOR, WYNDHAM PLACE,
44 WYNDHAM STREET,
CENTRAL HONG KONG

Registration held by:

MAGCHEM (PVT) LIMITED,
2274 TILBURY ROAD,
WORKINGTON, HARARE,
ZIMBABWE

ACETAMIPRID 200SP

Registration Number: 10-D-166-23

DIRECTIONS FOR USE Use only as directed.

ACETAMIPRID 200SP is not compatible with chemicals with strong alkaline reaction upon dilution or strong alkaline spray water. Use a buffer to adjust the pH to between 5.0 and 5.5.

DOSAGE RATES

CROP/PEST	ACETAMIPRID 200SP PER HECTARE	REMARKS
COTTON Aphids (<i>Aphis gossypii</i>) Jassids (<i>Empoasca fascialis</i>)	50 ml+ a buffer (see above)	Apply the recommended dose per hectare when signs of damage occur. Systemic activity of the product is impaired when plants are under stress from drought or waterlogged conditions.
TOBACCO TRB Number 10-D-166-23 Aphids	15-30 grams	Apply the recommended dose per hectare when pest signs appear.

WARNINGS

- **WITHHOLDING PERIODS:** Cotton.....21 days
- Handle with care.
- Do not graze treated cotton fields.
- Harmful when ingested, inhaled or by skin contact.
- Cause moderate eye and skin irritation.
- Toxic to fish, bees and wild life.
- Keep out of reach of children, uninformed persons and animals.
- Store away from food and feed.
- In the case of accidental poisoning, CONSULT A DOCTOR AND SHOW HIM THIS LABEL.

PRECAUTIONS

- Prevent inhalation and contact with skin.
- Accidental splashes should be washed off immediately.
- Wear face shield and rubber gloves when handling the concentrate.
- Do not eat, drink or smoke whilst applying the insecticide or before washing hands and face.
- Prevent contamination of wells, dams, lakes and rivers.
- Clean applicator after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty containers and do not use for any other purpose. Containers and packages must be completely emptied before being disposed of.

SAFETY PRECAUTIONS

Empty container disposal

invert the empty container over the spray tank or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10% of the container. Add the rinsings to the contents of the spray tank. Destroy the empty container by perforation and flattening. Return to supplier for recycling. **DO NOT** use for any other purpose. Dispose of the wash water at a site for the disposal of pesticides.

Decontamination of sprayer

Clean applicator thoroughly after use and ensure that all traces of **ACETAMIPRID 200SP** are removed. Make use of the following method;

- (a) Drain and rinse tank, spray boom and hoses with clean water for at least 10 minutes
- (b) Fill tank with clean water and add it to 1 litre household bleach (5%) or 1.5 Litres of household bleach (3.5%) per 200 Litres of water. Rinse hoses and spray boom and leave in tank for 15 minutes whilst agitating. Drain through nozzle outlets.
- (c) Repeat step (b) and thereafter, rinse thoroughly with clean water and dispose of the wash water at a site designated for the disposal of pesticides.

USE RESTRICTIONS

Do not apply more than twice per season to minimize development of resistance to **ACETAMIPRID 200SP**.

SYMPTOMS OF POISONING

Symptoms similar to those caused by nicotine poisoning. Apathetic state, depressed muscular tone, respiratory disturbances and trembling; muscular cramps also possible in severe cases of poisoning.

FIRST AID

1. If any of the above symptoms occur, particularly if contamination is likely, **STOP WORK**.
2. Remove contaminated clothing and wash skin and hair thoroughly.
3. If swallowed, induce vomiting without delay by tickling the back of the throat.
4. **CALL A DOCTOR AND SHOW HIM THIS LABEL.**

NOTE TO PHYSICIAN

No specific antidote. Treat symptomatically.

WARRANTY

Provided that the recommendations for usage of this product are strictly followed it should give excellent results, but since the performance of crop protection chemicals and pesticides can be influenced by factors outside the manufacturer's control, the manufacturers and seller give no guarantee or warranty, either express or implied, concerning the use and/or storage of this product, and accept no responsibility or liability of any nature whatsoever for any damage, injury or financial loss of any nature from the use thereof.

**TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL
OF THIS SUBSTANCE IS AN OFFENCE.**

**THIS PRODUCT WHEN STORED IN ITS UNOPENED,
ORIGINAL CONTAINER AWAY FROM DIRECT SUNLIGHT
AND IN A COOL, DRY PLACE WILL BE FIT FOR USE FOR AT
LEAST 24 MONTHS.**

Date of Manufacture: Dec. 2019

Batch Number: 20190315

Manufactured by:

**NOVAAGRO (HK) LTD
6TH FLOOR, WYNDHAM PLACE,
44 WYNDHAM STREET,
CENTRAL HONG KONG**

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