



MATERIAL SAFETY DATA SHEET

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| PRODUCT | : ACETAMIPRID 200SP |
| DATE | : June 2020 |
| REVISION NO | : 3 |
| PAGES | : 4 |

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

- Product Name **ACETAMIPRID 200SP**
- Common Name Acetamiprid 20% SP
- Chemical Name (IUPAC) *(E)-N¹-[(6-chloro-3-pyridyl)methyl]-N²-cyano-N¹-methylacetamide.*
- Supplier **NOVA AGRO (HK) LTD.**
(Reg. No. 1023146)
6th Floor Wyndham Place
44 Wyndham Street
CENTRAL HONG KONG.
TEL No.: +852 3586 2521
- 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.

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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.

7. 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 eyewash: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| • Appearance | Off white powder |
| • Odour | None. |
| • Explosive properties | Non-explosive. |
| • Oxidising properties | Non-corrosive. 6.8 |
| • pH | 6.2 (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 | N.a. |
| • Dilution stability | Relatively stable. Do not keep mixture overnight. |

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- Solubility in water 4200mg/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.

10. 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.

11. 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.

12. 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.
- **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.

13. DISPOSAL CONSIDERATION

- **Pesticide disposal:** Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot 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.

14. TRANSPORT INFORMATION

- UN Number 3077
- CLASS 9
- Packing Group III

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15. 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.

16. PACKING AND LABELING

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

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.