

READ THE ENTIRE LABEL BEFORE USING THIS PRODUCT

SAFETY PRECAUTIONS

1. Handle with care.
2. **Wear protective clothing, boots, rubber gloves and face shield when handling the product.**
3. **KEEP OUT OF THE REACH OF CHILDREN.**
4. **KEEP APART FROM FOOD AND FOODSTUFFS.**
5. **KEEP UNDER LOCK AND KEY.**
6. **DO NOT** inhale fumes or spray mist.
7. Avoid contact with skin and eyes.
8. Prevent spray drift onto other crops, grazing, rivers, dams or other areas not under treatment.
9. **DO NOT** eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothes.
10. Wash contaminated clothing daily.
11. Toxic to fish and birds.
12. Wash with soap and water after use and accidental skin contact.
13. Clean all equipment thoroughly after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
14. Triple rinse empty containers in the following manner: Rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the described manner.
15. Destroy the empty container by perforating and flattening and dispose of it in a safe manner.
16. **Never** re-use the empty container for any other purpose whatsoever.

SYMPTOMS OF POISONING

Irritation of skin, eyes, face and mouth. Excessive inhalation may cause nasal and respiratory irritation. Ingestion may cause stomach irritation, nausea, cramps and vomiting.

FIRST AID

Inhalation: remove patient to fresh air. Skin contact: remove contaminated clothing and wash patient thoroughly with soap and water. Ingestion: wash out mouth with water. If patient is conscious, induce vomiting by tickling the back of the throat if medical treatment is not readily available and if time from ingestion is less than 1 hour. Eye contamination: wash eye gently with clean running water for 15 to 20 minutes.

IN ALL CASES, SEEK MEDICAL ATTENTION AS QUICKLY AS POSSIBLE AND SHOW THIS LABEL TO THE ATTENDING PHYSICIAN.

DIRECTIONS FOR USE

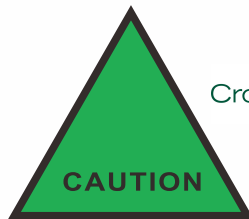
BULLET 60 EC is a combination pesticide with both contact and stomach action. It gives rapid knockdown and has a relatively long residual activity. It must be applied as a full cover spray.

BULLET 60 EC

Insecticide

Reg. No.: 19-D-166-78-D-136-98

500ml



HARMFUL IF SWALLOWED



Composition

| | |
|-------------------------|--------|
| Acetamiprid..... | 30g/L |
| Lambda-cyhalothrin..... | 30g/L |
| Inert ingredients..... | 940g/L |

mass/volume

Chemical groups: Acetamiprid: Neonicotinoid
Lambda-cyhalothrin: Synthetic pyrethroid

BULLET 60 EC is a combination insecticide with both contact and stomach action. It gives rapid knockdown and has a relatively long residual activity. It must be applied as a full cover spray.

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

KEEP OUT OF REACH OF CHILDREN



1. Triple rinse clean container after use
2. Puncture holes in bottom
3. Return to Maguires Recycling Facilitator / Return to nearest recycling facility

| Crop | Pests | Application rate per 100L of water | Remarks |
|---------------|--|------------------------------------|---|
| Tomatoes | Aphids, whiteflies, leafminers, thrips | 100ml | |
| Tobacco lands | Cutworm | 30ml | Apply 30ml of mixture to each seedling so as to wet stem and soil surrounding the base of the seedling. |
| | Aphids | 30ml | Apply 150L water/ha at 10-14 day intervals. |

Pre-harvest intervals: tomatoes 12 days

Warranty

The excellent results which this product should normally yield are not however warranted or guaranteed as efficacy can be greatly influenced by factors outside the control of either the manufacturers or suppliers. No warranty whatsoever, express or implied, is therefore given concerning the performance or efficacy of this chemical and responsibility is specifically excluded for any damage, injury or loss of any kind during or resulting from its handling, use or storage. The product is warranted to consist of ingredients as shown on the label.

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 BULLET 60 EC 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.

Date of Manufacture: Feb.2019 Batch Number: 20190222

Manufactured by:
NOVA AGRO(HK)LTD
6TH FLOOR, WYNDHAM PLACE,
44 WYNDHAM STREET,
CENTRAL HONGKONG

Registration held by:
MAGCHEM (PVT) LIMITED,
2274 TILBURY ROAD,
WORKINGTON, HARARE,
ZIMBABWE



MATERIAL SAFETY DATA SHEET

PRODUCT : BULLET 60 EC

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SUPPLIER : NOVA AGRO (HK) LTD.
27/F Tesbury Centre
28 Queen's Road East
Wanchai
HONG KONG

EMERGENCY TELEPHONE NUMBERS

SPILLAGES:

Emergency telephone : (27) 32-946 3472

POISONINGS:

National Poison Centre : (27) 21-9386084 (office hours)
(South Africa) (27) 21-9316129 (after hours).

1. PRODUCT IDENTIFICATION

Product Name : BULLET 60 EC
Active Ingredient (%) : Acetamiprid 30g/L
Lambda-cyhalothrin 30g/L
Chemical Name : *E*-*N*₁-[(6-chloro-3-pyridyl)
methyl]-*N*₂-cyano-*N*₁-methyl
acetamidine
+
[1a(S*),3a(Z)]-cyano(3-
phenoxyphenyl) methyl-3-(2-
chloro-3,3,3-trifluoro-1-
propenyl)-2,2-dimethyl=
cyclopropanecarboxylate
CAS No. : 135410-20-7
91465-08-6
Chemical Class : Acetamidine + Pyrethroid

2. HAZARDS IDENTIFICATION

Health and Environmental

May cause skin irritation. May cause sensitization by skin contact. Vapours may cause drowsiness and dizziness. May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

Hazardous Decomposition Products

May decompose at high temperatures forming toxic gases.

Physical Properties

Appearance: Off-white liquid

Odour: Slight odor/typical aromatic solvent

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

3. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after by a poison control center or doctor. Do not give

Eye anything by mouth to an unconscious person.
Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin
Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

4. FIRE FIGHTING MEASURES

Fire and Explosion

Autoignition Not Available

Temperature:

Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO₂ extinguishing media. 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. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

5. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

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 in Protective Equipment Section. Cover entire spill with absorbing material and place



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into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid 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 disposition.

6. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products 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 water after handling.

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

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

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear. Stringent housekeeping measures are necessary to prevent translocation of the material from contaminated work surfaces to uncontaminated surfaces (railings, doors, etc.). Unprotected contact with such translocated material can result in paresthesia effects (see Section 11).

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits. In case of emergency spills, use a NIOSH approved respirator with any R, P or HE filter.

8. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber to brown clear liquid
Odour: Slight odor/typical aromatic solvent
Melting Point: Not Applicable
Boiling Point: 100°C
Specific Gravity/Density: 1.04 @ 20°C
pH: 7.3 (1% w/w dilution in deionized water)
Solubility in H₂O Lambda-cyhalothrin 0.004mg/l

Vapor Pressure Lambda-cyhalothrin
1.5 x 10⁽⁻⁹⁾ mmHg @ 20°C

9. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Materials to Avoid: None known.

Hazardous Decomposition Products: May decompose at high temperatures forming toxic gases.

10. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Practically Non-toxic
Oral (LD₅₀ Rat): >5,000 mg/kg

Dermal: Slightly Toxic
Dermal (LD₅₀ Rat): >2,000 mg/kg

Inhalation: Practically Non-Toxic
Inhalation (LC₅₀ Rat) : >4.62 mg/l air (4h)

Eye Contact: Non-Irritating (Rabbit)

Skin Contact: Practically Non-Irritating (Rabbit)

Skin sensitization A weak skin sensitizer in animal tests.

11. ECOLOGICAL INFORMATION

Summary of Effects

Acetamiprid:

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.

Lambda-cyhalothrin:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Eco-Acute Toxicity

Lambda-cyhalothrin:

Fish (Rainbow Trout) 96-hour LC₅₀ 0.19 ppb

Fish (Bluegill Sunfish) 96-hour LC₅₀ 0.21 ppb

Bird (Mallard Duck) LD₅₀ Oral > 3950 mg/kg

Bird (Mallard Duck) 8-day dietary LC₅₀ > 3948

Bee (Contact) LD₅₀ 0.038 ug/bee

Invertebrate (Water Flea) 48-hour EC₅₀ 0.04 ppb

Bird (Bobwhite Quail) 8-day dietary LC₅₀ > 5300 ppm



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Eco-Chronic Toxicity

Lambda-cyhalothrin :

Invertebrate (Water Flea) 21-day LOEC 0.0035 ppb

Bird (Mallard Duck) Reproduction 19-week LOEL > 30ppm

Fish (Fathead Minnow) 300-day LOEC 0.062 ppb

Environmental Fate

Lambda-cyhalothrin:

The information presented here is for the active ingredient, lambda-cyhalothrin.

Not persistent in soil or water. Immobile in soil. Sinks in water (after 24h).

12. DISPOSAL CONSIDERATIONS

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

13. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA

Containers < 450 liters: Not regulated.

Containers > 450 liters:

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Acetamiprid + Lambda-cyhalothrin)

Hazard Class or Division: Class 9

Identification Number: UN 3082

Packing Group: PG III

Air Transport - NAFTA

Containers < 450 liters: Not regulated.

Containers > 450 liters: Prohibited.

B/L Freight Classification

Insecticides, NOIBN, O/T Poison

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Acetamiprid + Lambda-cyhalothrin), Marine Pollutant

Hazard Class or Division: Class 9

Identification Number: UN 3082

Packing Group: PG III

IMDG EMS #: F-A, S-F

Air Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Acetamiprid + Lambda-cyhalothrin)

Hazard Class or Division: Class 9

Identification Number: UN 3082

Packing Group: PG III

Packing Auth.: 914

Note: Max. inner packages 5 liters

Max. single packages 450 liters

14. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard
Chronic Health Hazard

CERCLA/SARA 302 Reportable Quantity (RQ)

Report product spills > 520 gal. (based on xylene [RQ = 100 lbs.] content in the formulation)

15. OTHER INFORMATION

None

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.
- Florida Agricultural Information Retrieval System: University of Florida.