



MATERIAL SAFETY DATA SHEET

PRODUCT : Acetamiprid 3.2% + Abamectin 1.8% EC

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name : Acetamiprid, Abamectin

Grade : Formulation

Active Ingredient : Acetamiprid 3.2% + Abamectin 1.8% EC

Chemical Name of : **Acetamiprid** : (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-

Active Ingredient cyano-N1- methylacetamidine

(IUPAC)

Abamectin:

(1'R,2R,3S,4'S,6S,8'R,10'E,12'S,13'S,14'E,16'E,20'R,21'R,24'S)-
2-[(2S)-butan-2-yl]-21',24'-dihydroxy-12'-[(2R,4S,5S,6S)-5-
[(2S,4S,5S,6S)-5-hydroxy-4-methoxy-6-methyloxan-2-yl]oxy-
4-methoxy-6-methyloxan-2-yl]oxy-3,11',13',22'-
tetramethylspiro[2,3-dihydropyran-6,6'-3,7,19-
trioxatetracyclo[15.6.1.1^{4,8}.0^{20,24}]]pentacosa-10,14,16,22-
tetraene]-2'-one

Chemical Family of A. I. : **Acetamiprid** : Neonicotinoid

Abamectin: Glycoside Insecticide.

Molecular Formula of A. : **Acetamiprid** : C₁₀H₁₁ClN₄

I. **Abamectin:** C₄₈H₇₂O₁₄

Molecular Mass of A. I. : **Acetamiprid** : 222.67 g/mol

Abamectin: 1732.1 g/mol



Manufacturer & Supplier : M/s PERFECT SOLUTIONS

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(India)

Factory Add: 15/1, 15/2, 15/3 Industrial Estate, Vidisha -
464001 (M.P)

Telephone Number : +91 8375844625

Section 2. Composition / Information on Ingredients

<u>Name of Components</u>	<u>Concentration% w/w</u>
Acetamiprid	3.00% w/w
Abamectin	1.00% w/w
Inert ingredient	Q.S
TOTAL	100.00% w/w

Section 3. Hazards Identification

Health Hazards: May be harmful in contact with skin. May cause an allergic skin reaction.
Causes mild eye and skin irritation.

If Swallowed :May be harmful by ingestion.

If Inhaled:Toxic if inhaled.

Emergency:Warning! Keep out of reach of children.

Skin and Eyes:May cause eye and skin irritation

Entry route:Ingestion, Inhalation, Contact with eye or skin.

Section 4. First Aid Measures

First Aid

IF POISONING IS SUSPECTED, or any symptoms are serious, immediately contact the poison information centre, doctor or nearest hospital. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms, and follow the advice given.



INGESTION: If victim is fully conscious, give 2-3 glasses of water to dilute, and get immediate medical attention. Induce vomiting as directed by a physician. Never give anything by mouth or induce vomiting in a person who is unconscious or convulsing.

SKIN: Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water. Obtain medical attention. Wash contaminated clothing before re-use.

EYES: Immediately rinse eyes with a large amount of running water, holding eyelids apart to rinse the entire surface of the eye and lids. Obtain medical attention.

INHALATION: Move to fresh air, clean up, and rest. Give artificial respiration if necessary. Contact Poison Centre or physician immediately.

Section 5. Fire Fighting Measures

Flash point and method: Non-flammable

Upper and lower flammable (explosive) limits in air: Not available

Autoignition temperature: Not available

Hazardous combustion products: Toxic gases including carbon monoxide, carbon dioxide, oxides of nitrogen, and smoke.

Extinguishing media: Dry chemical, foam, carbon dioxide. Firefighters should wear self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel and animals. Discharges to the environment are to be controlled as quickly as possible to avoid contamination. Prevent use of buildings, area and equipment until properly decontaminated.

Sensitivity to explosion by mechanical impact: No

Sensitivity to explosion by static discharge: Low

Section 6. Accidental Release Measures

Procedures for dealing with release or spill: Extinguish cigarettes and other ignition sources.

Wear protective clothing (see Section 8). Absorb spill in absorbent material such as pet litter, sweep up and place in an approved chemical container. Clean up residue with towels moistened with methanol. Seal and label the container and handle in an approved manner.

Do not allow spilled material to contaminate water supplies. On soils, skim off the upper



contaminated layer and collect for disposal. Follow municipal and provincial regulations for spill reporting and disposal.

Section 7. Handling & Storage

Handling practices: KEEP OUT OF REACH OF CHILDREN and animals, and away from open flames or other sources of ignition. Avoid contact with eyes, skin or clothing and avoid breathing vapour or spray mist. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands before eating, smoking, drinking, or using the toilet. Clean up spilled product immediately, and clean clothes and equipment after use. Wash contaminated clothing before re-use. Keep product, spray, wash or rinse water, and contaminated materials out of water, and away from access by people, animals and bees. Keep containers closed when not in use. Do not re-enter treated areas until residues have dried.

Appropriate storage practices/requirements: Store in original containers in a well-ventilated, cool, dry, secure area, inaccessible to children and domestic animals. Store away from heat or flame. Keep separate from other products. Clean up spilled product immediately. National Fire Code classification: Class IIIA combustible liquid

Section 8. Exposure Control, Personal Protection

Applicable control measures, including engineering controls: Ensure work areas have ventilation and procedures sufficient to maintain airborne levels below the TLV. Provide safety showers and eyewash station near workplace. Keep this material out of water. Personal protective equipment for each exposure route:

INGESTION: Avoid eating, drinking, smoking or cosmetic application in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

EYES: To avoid eye contact, wear chemical goggles or a full face shield.

SKIN: To avoid skin contact, wear full-length disposable protective clothing (e.g. Tyvek coveralls), waterproof boots, nitrile gloves, and a head covering.

INHALATION: To avoid breathing vapor or mist, wear an approved supplied air respirator or self-contained breathing apparatus.



Section 9. Physical and Chemical Properties

Appearance / state	: Light beige to brownish liquid
Colour	: Light beige to brownish liquid
Odour	: Light Sweetish
Melting point	: NA
Vapour pressure	: Abamectin - $<3.7 \times 10^{-3}$ mPa (25°C) Acetamiprid- $<1 \times 10^{-3}$ mPa (25°C)
PH	: NA
Density	: Abamectin – 1.18 (22°C) Acetamiprid- 1.330 (20°C)
Flash Point	: >100 °C at 755 mmHg

**Section
10.**

Stability & Reactivity

Chemical stability: Stable

Conditions to avoid: High heat, open flames

Incompatibility with other materials: Strong caustic solutions, strong acid solutions, oxidizing agents

Hazardous decomposition products: None known

Hazardous polymerisation: Will not occur.

Section 11. Toxicological Information

Acute Oral Toxicity- LD₅₀	Rat: >1000 mg/kg b.w.
Acute Dermal Toxicity- LD₅₀	Rat: >4000 mg/kg b.w
Acute Inhalation - LD₅₀ (4h)	Rat: >1 mg/l
Eye irritation	Slight Irritating to eyes
Skin Irritation	Slight irritating
Skin Sensitization	A non -skin sensitizer

Section 12. Ecological Information

Toxicity to Birds	LD₅₀ for Japanese Quails >2000 mg/kg
Toxicity to Fishes	LC ₅₀ (96h), rainbow trout: 0.0036 mg/l
Toxicity to daphnia	EC ₅₀ (48h): 0.0012 mg/l



Toxicity to Algae

EbC₅₀:> 100 mg/l

Section 13. Disposal Consideration

Product: Dispose of product by using it in accordance with the label. Do not burn. Waste product should be disposed of to an approved landfill.

Container: Dispose of to an approved landfill or agricultural recycling scheme. Do not burn. Do not use packaging for any other purpose.

Section 14. Transport Information

IMDG Classification

Shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Abamectin and Acetamiprid)

Class : 6.1

Packing group : III

UN number : 2902

Marine pollutant : Yes

Section 15. Regulatory Information

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Delayed health hazard chronic

CA PROPOSITION 65: n-Methylpyrrolidone (Code D)

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.



Section 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 resented 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 produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warrantee expressed or implied is made by PERFECT SOLUTIONS, as to the results to be obtained based upon the user's use of the information, nor does PERFECT SOLUTIONS, assume any liability arising out of user's use of the information.

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