



SHARDA ABAMECTIN 18 EC

Reg. No. L10794, Act No. 36 of 1947 | Reg. Nr. L10794, Wet Nr. 36 van 1947

Read the label before use
Keep out of reach of children and animals

An emulsifiable concentrate insecticide with translaminar activity for the control of various pests in crops as indicated.

Hazard Statements

Toxic if swallowed.
May be fatal if swallowed and enters airways.
Causes mild skin irritation.
Causes serious eye damage.
Toxic if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May cause damage to organs.
Very toxic to aquatic life with long lasting effects

Precautionary Statements

Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.

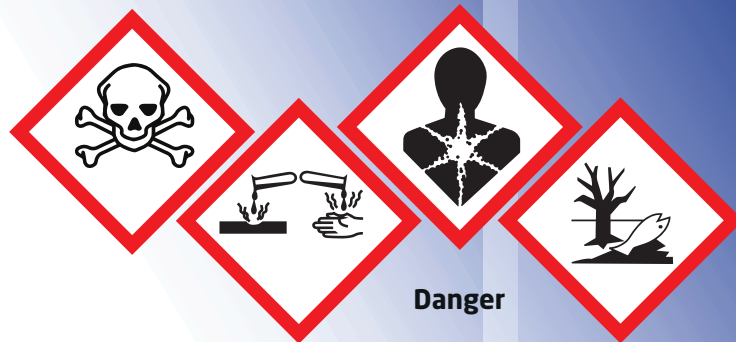
IRAC INSECTICIDE GROUP CODE 3
ACTIVE INGREDIENT
Abamectin 18g/ℓ

Manufactured for and registered by/Vervaardig
vir en geregistreer deur:

Sharda International Africa (PTY) LTD
Reg. No./Reg. Nr. 2010/002268/07
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UN No./VN Nr. 2902

'n Emulgeerbarekonsentraat insekdoder met translaminêre aktiwiteit vir die beheer van verskeie plae op gewasse soos aangedui.



Danger

IRAC INSEKDODERGROEPKODE 3
AKTIEWE BESTANDDEEL
Abamektien 18g/ℓ

BATCH NO. LOT NR.	
EXPIRY DATE VERVAL DATUM	

Contents/Inhoud

5ℓ

WARNINGS

Withholding periods:

Minimum number of days between last application and harvest:

Apples: 14 days

IF THE CROP TO BE TREATED IS INTENDED FOR EXPORT, CONSULT THE RELEVANT EXPORTING ORGANISATION REGARDING WITHHOLDING PERIODS.

- Toxic if swallowed.
- May be fatal if swallowed and enters airways.
- Causes mild skin irritation.
- Causes serious eye damage.
- Toxic if inhaled.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- Suspected of causing cancer.
- May cause damage to organs.
- Very toxic to aquatic life with long lasting effects
- Handle with care.
- Toxic to bees coming into direct contact with spray mixture. Avoid spraying during periods of high bee activity.
- Store in a cool, dry, well-ventilated place in the original container, tightly closed.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated field within 1 day after application unless wearing protective clothing. Unprotected workers must vacate the area before spraying.
- Do not use in situations where the target crop is interplanted with other crops for which the use of SHARDA ABAMECTIN 18 EC is not registered.
- In case of poisoning call a physician and make this label available to him/her.

Aerial application:

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas. Do not use aerial application in apples.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest to the remedy concerned as well as by the method, time and accuracy of the application. The registration holder furthermore, does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for the lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in event of uncertainty.

PRECAUTIONS

- Obtain special instructions before use
- Do not breathe dust/fume/gas/mist/vapours/spray..
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear eye protection/face protection.
- IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.
- Immediately call a POISON CENTER/ doctor/...
- Call a POISON CENTRE/doctor/...if you feel unwell.
- Get medical advice/attention if you feel unwell.
- Do NOT induce vomiting.
- Collect spillage.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of contents/container to.
- Do not inhale spray mist and avoid eye and skin contact.
- Wear rubber gloves, boots and a face shield while handling the concentrate. Wear an overall and rubber gloves during application.
- Wash with soap and water immediately after use or accidental skin contact.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothing after use.
- Wash contaminated clothing daily.
- Prevent drift of spray onto other crops, water sources, grazing and areas not under treatment.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Clean all equipment thoroughly after use and dispose of wash water where it will not contaminate other crops, grazing, rivers or dams.
- Destroy the container by perforation and flattening and dispose of it in a safe way.

RELEVANT SUBSTANCES:

Components	%
Abamectrin	< 2
Benzenesulfonic acid, C10-13- (linear)alkyl derivs., calcium salt	< 5
2-methylpropan-1-ol	< 3
3,5,5-Trimethyl-2-cyclohexen-1-one	< 50
Hydrocarbons, C10, aromatics, <1% naphthalene	< 80

SYMPTOMS OF HUMAN POISONING

Initial signs of poisoning are large pupils and slow or depressed respiration. More serious poisoning can result in ataxia (inability to control posture and bodily movements), muscle twitching and convulsions.

FIRST AID TREATMENT

Get medical attention in all cases:

- Inhalation: Remove patient from source of poisoning to a well-ventilated area and keep him calm and reassured. Keep air passages open.
- Skin: Remove contaminated clothing and rinse contaminated body area with plenty of soap and cold water. Do not rub skin.
- Eyes: Flush contamination out of eyes for 15 minutes or longer with clean water.
- Ingestion: If water diluted mixture has been swallowed, give one or two glasses of water immediately. Induce vomiting by tickling the back part of the throat. If concentrate has been swallowed, first give copious quantities of either beaten egg white, starch solution or Milk of Magnesia before inducing vomiting. Continue procedure until vomit is clear and free from smell of poison. If patient is unconscious, gastric lavage must be performed.
- Administer artificial respiration or closed chest cardiac massage if necessary.
- Do not apply direct mouth-to-mouth respiration.
- Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN

There is no known specific antidote for abamectin acute toxicity, however toxicity can be minimised by inducing vomiting as soon as possible after accidental ingestion. Treat symptomatically to maintain life functions.

RESISTANCE WARNING

For resistance management, SHARDA ABAMECTIN 18 EC is a group code 6 insecticide. Any insect population may contain individuals naturally resistant to SHARDA ABAMECTIN 18 EC and other group code 6 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by SHARDA ABAMECTIN 18 EC or any other group code 6 insecticides.

To delay insecticide resistance:

- avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank-mix with products from different insecticide group codes,
- integrate the control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

The full range of compatibility of SHARDA ABAMECTIN 18 EC with other remedies is not known, thus do not use it in tank mixtures with products other than those mentioned on this label.

When spraying SHARDA ABAMECTIN 18 EC in apples a light mineral oil should be added at recommended label rates. Do not apply Captab (Captan) or sulphur sprays within two weeks before or after applying SHARDA ABAMECTIN 18 EC plus oil as fruit and/or leaf spotting may result.

Mixing instructions:

- Half fill the spray tank with clean water.
- Mix the required quantity of SHARDA ABAMECTIN 18 EC with at least 10 litres water and add to the tank whilst agitating. If any other product is to be added as an ingredient in a tank mixture, it should be done in the same way. Agitate thoroughly whilst adding the rest of the water.
- Use immediately and do not allow standing for long periods of time e.g. overnight.
- Maintain agitation throughout application.
- Water quality in respect of pH values and hardness will not affect the efficacy of SHARDA ABAMECTIN 18 EC.

Number of sprays per crop:

Do not apply more than 4 sprays per season in apples.

Application techniques:

All spray applications of SHARDA ABAMECTIN 18 EC must be made with appropriate equipment that is properly calibrated and in good working order. Ensure a good even application of spray mixture on the target crop, for maximum efficacy.

Ground application:

Apply in enough water to ensure even coverage of the target area. The volume of water needed will depend on the growth stage of the plants and the type of equipment used.

Aerial application:

Aerial application of SHARDA ABAMECTIN 18 EC may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of 30 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage: 25 to 35 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 280 to 300 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15 km per hour.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - a) Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage)
 - b) Damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES

CROP / PEST	DOSAGE RATE	REMARKS
Apples Red spider mite (<i>Tetranychus urticae</i>) and European red mite (<i>Panonychus ulmi</i>)	35 ml PLUS 250 ml light mineral oil / 100 L water (750 to 1500 ml/ha PLUS 0.25 % oil)	SHARDA ABAMECTIN 18 EC is suitable for use in an integrated pest management (IPM) programme. Use in apple orchards where the IPM programmes is not controlling mites effectively. Apply as soon as the spider mite population reaches the economic threshold level and repeat as required. See table below for economic threshold levels. Apply as high volume, high pressure, full cover spray to just before run-off (2150 to 4300 litres spray mixture per hectare). If a low volume application is made and less than 2150 litres spray mixture per hectare is applied, use at least 750 ml SHARDA ABAMECTIN 18 EC per hectare plus 0.25 % oil. Use sufficient water to ensure good coverage. Do not apply more than 1500 ml SHARDA ABAMECTIN 18 EC per hectare in any single application or more than a total of 3000 ml per hectare in a growing season (4 sprays of the lower rate).

CROP / PEST	DOSAGE RATE	REMARKS
Flowers & Ornamentals Red spider mite (<i>Tetranychus urticae</i>) Chrysanthemums American leaf miner (<i>Liriomyza trifolii</i>)	25 ml / 100 L water (560 to 1500 ml/ha)	Apply SHARDA ABAMECTIN 18 EC at first signs of infestation as a high volume, high pressure, full cover spray to point of run- off at a minimum of 2250 litres spray mixture per hectare. If less than 2250 litres spray mixture is applied (i.e. when spraying young plants) a minimum of 560 ml SHARDA ABAMECTIN 18 EC per hectare must be applied in sufficient water to provide a full cover spray. NEVER exceed 1500 ml SHARDA ABAMECTIN 18 EC per hectare. Ensure that both foliage surfaces are thoroughly wetted by the spray to point of run-off. Red spider mite: Repeat application as necessary. American leaf miner: Repeat application every 7 days or as needed to maintain control.

Economic threshold levels:

APPLES: 2 adult females per leaf up to the end of March and subsequently 1 per leaf.

NOTE

- SHARDA ABAMECTIN 18 EC is suitable for use in Integrated Pest Management Programmes (IPM). When applied at the recommended rates it will not control all the spider mites in a crop. Survivors will supply a food source for the predatory mites thus encouraging a build-up in their numbers.
- SHARDA ABAMECTIN 18 EC is quickly taken up by the plant. It will not easily be washed off by rain or irrigation if the spray mixture has had sufficient time to dry properly.
- Heavy spray applications can reduce the efficacy of SHARDA ABAMECTIN 18 EC by causing run-off.
- SHARDA ABAMECTIN 18 EC does not have a fast knockdown effect on mites or leaf miners and the time taken to reach maximum control is temperature dependent. This can vary from 3 to 5 days. During this time crop damage is minimal due to the mobility of the pests being curtailed
- Spray residues of SHARDA ABAMECTIN 18 EC have a negligible effect on predatory mites and other beneficial arthropods.