



# Nemathorin<sup>®</sup> 10G

syngenta.

**GROUP N1 NEMATOCIDE**

Product registration number: MAPP 11003  
UFI: 7C0R-2YGX-WW89-SW3W

Fine granule containing 10% w/w fosthiazate.

A contact nematocide/insecticide for the control of the potato cyst nematode (*Globodera rostochiensis* and *Globodera pallida*) and a reduction of potato tuber damage caused by wireworm and reduction of spraing transmitted by free-living nematodes.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Colour of the bottom of the container will change every calendar year to track the manufacturing date of the empty container. There is no link with the manufacturing date of the product Nemathorin 10G inside the container.

PROTECT FROM FROST.

**In case of toxic or transport emergency ring +44 (0)1484 538444 any time.**

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This product label is compliant with the  
CPA Voluntary Initiative (VI) guidance.

**20 kg**

Product names marked ® or ™, the ALLIANCE FRAME  
the SYNGENTA Logo and the PURPOSE ICON  
are Trademarks of a Syngenta Group Company



**NEMATHORIN 10G**

Fine granule containing 10% w/w fosthiazate

**Signal Word**

Danger

**Hazard Statements**

Toxic if swallowed.

Toxic to aquatic life with long lasting effects.

**Precautions Statements**

Avoid breathing dust.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF ON SKIN: Wash with plenty of soap and water.

Specific treatment (see supplemental first aid instructions on this label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

**Supplemental Information**

Toxic by eye contact.

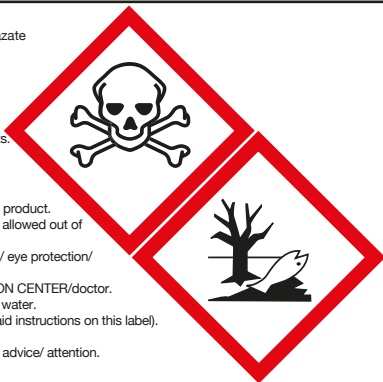
To avoid risks to human health and the environment comply with the instructions for use.

Contains Fosthiazate (ISO) (98886-44-3). May cause an allergic reaction.

Safety data sheet available on request.

MAPP 11003

UFI: 7C0R-2YGX-WW89-SW3W

**IMPORTANT INFORMATION**

FOR USE ONLY AS AN AGRICULTURAL NEMATOCIDE / INSECTICIDE

Crops: Potatoes

Maximum individual dose per crop, Maximum number treatments, Latest time of application and Other specific restrictions: Full details are given in IMPORTANT INFORMATION on attached leaflet.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

IMPORTANT INFORMATION			
FOR USE ONLY AS AN AGRICULTURAL NEMATOCIDE / INSECTICIDE			
Crops	Maximum individual dose per crop	Maximum number of treatments	Latest time of application
Potatoes	Broadcast overall application 30 kg product/ha	One per crop	At planting
Other specific restrictions:			
DO NOT desiccate or harvest crops for human or animal consumption for at least 17 weeks after application.			
<b>READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.</b>			

**SAFETY PRECAUTIONS****(a) Operator protection**

FOSITHIAZATE is an anticholinesterase organophosphorus compound. Do not use if under medical advice NOT to work with such compounds. Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, EYE PROTECTION (GOGGLES) AND FILTERING FACE PIECE RESPIRATOR (DISPOSABLE FILTERING FACE PIECE TO AT LEAST EN 149 FFP3) when handling the product, adjusting granule application machinery or handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product via tractor-mounted/drawn machinery.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS AND RUBBER APRON), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS, EYE PROTECTION (GOGGLES) AND A FILTERING FACE PIECE RESPIRATOR (DISPOSABLE FILTERING FACE PIECE TO AT LEAST EN 149 FFP3) when cleaning contaminated equipment.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of the gloves.

TAKE OFF IMMEDIATELY heavily contaminated clothing.

WASH DUST from skin or eyes immediately.

DO NOT BREATHE DUST.

AVOID ALL CONTACT BY MOUTH.

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

IF YOU FEEL UNWELL, seek medical advice IMMEDIATELY (show this leaflet where possible).

The product must only be applied using tractor mounted/drawn direct placement machinery. Do not apply via air-assisted placement machinery other than that referenced on the product label.

**(b) Environmental protection**

DANGEROUS TO LIVESTOCK. Keep all livestock out of treated areas for at least 13 weeks following treatment.

To protect birds/wild mammals the product must be fully incorporated in the soil; ensure that the product is also fully incorporated at the end of rows.

To protect birds and wild mammals remove spillages.

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

To protect groundwater do not apply this or any other product containing fosthiazate more than once every four years.

The incorporation of the product into soil to a depth of 10-15 centimetres and rigging-up of treated soil must be carried out immediately after application.

**(c) Storage and disposal**

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

EMPTY CONTAINER COMPLETELY and dispose of safely.

RETURN EMPTY CONTAINER TO THE SUPPLIER.

DO NOT RE-USE CONTAINER FOR ANY OTHER PURPOSE.

OPEN THE CONTAINER ONLY AS DIRECTED.

**SYMPTOMS OF POISONING**

The active ingredient fosthiazate inhibits cholinesterase, resulting in stimulation of the nervous system, the parasympathetic nervous system and the somatic motor nerves. The symptoms may include excessive sweating, headache, weakness, faintness and giddiness, nausea, stomach pains, vomiting, small pupils, blurred vision, muscle twitching. First aid measures are aimed at reactivating cholinesterase and eliminating exposure.

**FIRST AID TREATMENT**

If any of the above symptoms occur, particularly if there is known contamination.

**STOP WORK**

Remove contaminated clothing. Wash exposed skin and hair. Prevent all exertion. Call doctor AT ONCE and show him this label.

Following an **oral exposure**, seek medical advice immediately and show this container or label. Do NOT induce vomiting. The symptoms are of cholinesterase inhibition. Consider taking venous blood for determination of blood cholinesterase activity (heparin tube).

Following a **dermal exposure**, the skin should be washed with copious amounts of tap water and soap. Contaminated clothing and footwear should be removed. Consult a doctor/medical service.

Following **inhalation exposure**, leave the contaminated area immediately and move to fresh air. Consult a doctor/medical service.

Following **ocular exposure**, remove any contact lens at once. Eyes should be immediately irrigated with copious amounts of water for at least 15 minutes. Irrigation should not be delayed for the purpose of obtaining sterile or special irrigating solutions. If pain, swelling or photophobia persists, the individual should submit to an ophthalmologic examination.

**GUIDE TO DOCTOR**Initial Measures

Initial measures would include establishment of a patient airway, removal of secretions, and respiratory resuscitation as needed.

In the absence of cyanosis, atropine sulphate should be given intravenously in doses of 2 to 4 mg. When cyanosis is present, this dose of atropine should be given intramuscularly while simultaneously initiating measures for improving ventilation. Atropine administration should be repeated at 5 to 10 minute intervals until signs of atropine toxicity (dry, flushed skin, tachycardia, pupillary dilatation) appear. Some degree of atropinisation should be maintained for at least 48 hours.

Reactivation of Cholinesterase

Pralidoxime chloride (2-PAM; Protopam chloride) will reactivate cholinesterase, and may be effective as an adjunct to atropine. In adults, inject an initial dose of 1 to 2 grams of 2-PAM, preferably as an infusion in 100 ml of normal saline, over a 15 to 20 minute period. If this is not practical or if pulmonary oedema is present, the dose should be given slowly by intravenous injection as a 5% solution in water over not less than 5 minutes. After about 1 hour, a second dose of 1 to 2 grams will be indicated if muscle weakness has not been relieved. Additional doses should be given cautiously if muscle weakness persists. If intravenous administration is not feasible, intramuscular or subcutaneous injection should be used.

It should be noted that although 2-PAM is an effective reverser of unaged phosphorylated acetylcholinesterase, its protective action is limited when used alone. In general, 2-PAM treatment alone offers little protection against cholinesterase inhibition, while the combination of atropine and 2-PAM may offer synergistic protection. Specifically, for fosthiazate poisoning in rats, atropine alone increased the LD50, while 2-PAM alone had little effect on the LD50. The combination of atropine and 2-PAM did not appear to be more effective than atropine alone with respect to increasing the LD50 of technical fosthiazate in rats.

Substances such as morphine, epinephrine, tranquillisers and theophylline are contraindicated.

Watch for pulmonary oedema, which may develop in serious cases of poisoning even after 12 hours. At first signs of pulmonary oedema, the patient should be placed in an oxygen tent and treated symptomatically.

This leaflet is part of the approved Product Label.

**DIRECTIONS FOR USE**

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

**RESTRICTIONS**

NEMATHORIN 10G granules must be evenly applied and incorporated completely in one operation.

FAILURE TO COMPLETELY BURY GRANULES IMMEDIATELY AFTER APPLICATION IS HAZARDOUS TO WILDLIFE.

DO NOT USE on crops desiccated or harvested less than 17 weeks after treatment with NEMATHORIN 10G.

Consult processor before using on crops being grown for processing.

**PESTS CONTROLLED**

A contact nematicide/insecticide for the control of the potato cyst nematode (*Globodera rostochiensis* and *Globodera pallida*). Also for the reduction of potato tuber damage caused by wireworms (*Agriotes spp*) plus reduction of spraing resulting from tobacco rattle virus (TRV) transmitted by species of free-living nematodes, (stubby root nematodes) belonging to the genera *Trichodorus* and *Paratrichodorus*.

**CROP SPECIFIC INFORMATION****Timing**

At the time of planting

**Rates of Use**

For control of potato cyst nematodes: 30 kg/ha - broadcast overall and incorporated.

For reduction of spraing symptoms: 30 kg/ha - broadcast overall and incorporated before planting or at the time of tuber planting.

For reduction of wireworm damage: 15 kg/ha - broadcast and incorporated at the time of tuber planting.

**APPLICATION**

Ensure that the hopper on the application equipment is large enough to accommodate the full container content and that the amount dispensed is not more than is required for the area to be treated.

**Operating instructions:** This is a 'one shot' container; all contents to be used in one operation. This container should only be used in conjunction with a suitable adapter fitted to the hopper lid.

1. Remove the safety caps from the valve and applicator hopper.
2. Fit the container valve on to the applicator hopper.
3. Rotate the container anti-clockwise to start the flow of product.
4. When emptying is complete, rotate the container clockwise.
5. Remove the container from the applicator hopper.
6. Replace the safety caps on the applicator hopper and valve.
7. Return the empty containers to your supplier for recycling. Do not rinse out container.
8. Empty containers must be handled, transported and stored as if they contain pesticide.

Depth of incorporation is important for optimum efficacy. NEMATHORIN 10G granules should be incorporated to a depth of 10-15 cm. Incorporation to a greater depth than 10-15 cm will reduce efficacy of PCN control.

Application and incorporation is best achieved using equipment such as Horstine Farmery MICROBAND or TMair, Matco or Stocks-Micrometer or TechNeat Maxicast applicators together with a rear-mounted powered rotary cultivator.

Powered rotary cultivators are the preferred implement for incorporation but discs, power, spring tine or Dutch harrows can be used provided that two passes are made at right angles to each other.

**Application with Stone Separating Equipment**

Where application of NEMATHORIN 10G granules is to be done at the same time as stone separation, the granules should be applied through a Horstine Farmery MICROBAND applicator fitted with fishtail spreaders with a distance of 30 cm between centres fixed to the frame of the stone separator. The fishtail spreaders should be positioned as far forward as possible and ideally to achieve optimum placement and depth of incorporation should be placed above the first roller/web. It may be necessary to adjust the position according to the soil type and conditions. It is important that the applicator is positioned so that the granules are uniformly incorporated to a depth of 10-15 cm. INCORPORATION TO A GREATER DEPTH WILL CAUSE A REDUCTION IN CONTROL.

**IMPORTANT**

DO NOT ALLOW THE GRANULES TO BECOME WET OR DAMP BEFORE APPLICATION.

DO NOT ALLOW THE GRANULES TO STAND OVERNIGHT IN THE APPLICATION HOPPER.

Ensure that the hopper and rotators are clean and dry before use.

Application equipment should be calibrated prior to use to ensure accurate dosing and incorporation.

**APPLICATION EQUIPMENT CLEANING PROCEDURE**

Ensure that no or only a minimal quantity of product remains in the hopper after field application. Upon completion, place suitable receptacles over the delivery tubes, crank the applicator and collect the remaining granules. Comply with operator safety measures during these manipulations. The granules collected should be disposed in appropriate chemical waste.

**STORAGE**

Keep dry and frost proof in a suitable pesticide store between 0 and 32oC.

**COMPANY ADVISORY INFORMATION**

For the latest further advice and information on optimising product application, consult your **distributor**, a BASIS **qualified agronomist** or contact Syngenta Crop Protection Technical Enquires on 0800 169 6058.

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To access the Safety Data Sheet for this product, scan QR code:



Alternatively, contact your supplier.



PROTECT FROM FROST



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