Product registration number: MAPP 11003

Fine granule containing 10% w/w fosthiazate.

A contact nematicide/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.

PROTECT FROM FROST.

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

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© SUREFILL is a Registered Trademark of Surefill Valve Systems Limited.

Approval holder:
ISK Biosciences Europe NV
Pegasus Park, De Kleetlaan 12B
1831 Diegem
Belgium

UK Marketing Company:
Syngenta UK Ltd
CPC4, Capital Park, Fulbourn,
Cambridge, CB21 5XE
Tel: Cambridge (01223) 883400

This product label is compliant with the CPA Voluntary Initiative (VI) guidance.
NEMATHORIN 10G
Fine granule containing 10% w/w fosthiazate

Signal Word
Danger

Hazard Statements
Toxic if swallowed.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautions Statements
Avoid breathing dust.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/face protection.
IF ON SKIN: wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON centre or doctor/physician.
Specific treatment (see first aid instruction on this label).
Rinse mouth.
Wash contaminated clothes before re-use.
Store locked up.

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

IMPORTANT INFORMATION
FOR USE ONLY AS AN AGRICULTURAL NEMATICIDE / 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.

MAPP 11003
**Product Name:**

1.1 **Product Identifier**

1.2 **Description**

**NEMATHORIN 10G** granules are a contact nematicide/insecticide used for the control of the potato cyst nematode (Globodera rostochiensis and Globodera pallida). It is also used for the reduction of potato tuber damage caused by wireworm and reduction of spraing transmitted by free-living nematodes. 

**CROP SPECIFIC INFORMATION**

- **Function**: Nematicide and insecticide.
- **Target**: Potato cyst nematode (G. rostochiensis and G. pallida).
- **Use**: To reduce potato tuber damage caused by wireworm and spraing transmitted by free-living nematodes.

**Rates of Use**

- **Type**: Contact
- **Frequency**: Not more than once every four years.
- **Use**: Contingent on the presence of cyst nematodes.

**Application Recommendations**

- **Powered rotary cultivators**: Preferred implement for incorporation. Discs, power, spring tine or Dutch harrows can be used as alternatives.
- **Depth of Incorporation**: 10-15 cm for optimum efficacy.
- **Incorporation**: NEMATHORIN 10G granules must be evenly applied and incorporated completely in one operation.
- **Field Application**: Ensure no or minimal quantity remains in the hopper after application.

**Environmental Protection**

- **Direct Placement Machinery**: Do not apply via air-assisted placement. Use direct placement machinery instead.
- **Environmental Impact**: To protect birds/wild mammals, the product must be fully leached where possible.

**Handling and Storage**

- **Storage**: Store in a cool, dry place away from food and animal products.
- **Labeling**: Ensure the label is complete and legible.

**First Aid Measures**

- **Symptoms of Poisoning**: Nausea, stomach pains, vomiting, small pupils, blurred vision, muscle twitching. First aid measures aim to reactivating cholinesterase.
- **Reactivation of Cholinesterase**: Some degree of atropinisation should be maintained for at least 48 hours.
- **Symptoms of Pulmonary Oedema**: Watch for pulmonary oedema, which may develop after 12 hours. Immediate medical attention is crucial.

**Product Information**

- **Hazard**: Acute toxicity class 3, May cause sensitisation by skin contact.
- **S-phrase(s)**: S2, S3, S16, S17, S18, S23, S26, S45, S46
- **R-phrase(s)**: R23/25, R39, R41

**Additional Product Safety Information**

- **Information**: Consult the Material Safety Data Sheet (MSDS) for comprehensive safety information.
- **Emergency Numbers**: Call Syngenta at the emergency number shown in this document or a poison control center immediately for assistance.

**Physical Data**

- **Concentration**: Fosthiazate 98886-44-3 T, N
- **Acute Aquatic Toxicity Classification**: Category 3

**GHS Information**

- **GHS Classification**: H331: Acute Tox. 3; H317: Skin Sens. 1; H274: May cause sensitisation by skin contact.

**Further Advice and Information**

- **Optimising Product Application**: Consult the latest information for optimal application methods.
- **FDA**: Not applicable for this product.

**Disclaimer**

- **Syngenta UK Ltd**: © Syngenta AG, 2014. All rights reserved. Information is subject to change without notice.
DO NOT BREATHE DUST. TAKE OFF IMMEDIATELY heavily contaminated clothing.

Engineering control of operator exposure must be used where

Do not use if under medical advice NOT to work with such compounds.

FOR USE ONLY AS AN AGRICULTURAL NEMATICIDE / INSECTICIDE

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN

Potatoes Broadcast overall application

OPEN THE CONTAINER ONLY AS DIRECTED.

DO NOT RE-USE CONTAINER FOR ANY OTHER PURPOSE.

RETURN EMPTY CONTAINER TO THE SUPPLIER.

(c) Storage and disposal

immediately after application.

containing fosthiazate more than once every four years.

To protect groundwater do not apply this or any other product

contamination via drains from farmyards and roads.

Do not clean application equipment near surface water. Avoid

incorporated in the soil; ensure that the product is also fully

machinery other than that referenced on the product label.

The product must only be applied using tractor mounted/drawn

system and the somatic motor nerves. The symptoms may include excessive sweating, headache, weakness, faintness and giddiness,

The active ingredient fosthiazate inhibits cholinesterase, resulting in stimulation of the nervous system, the parasympathetic nervous

SYMPTOMS OF POISONING

Watch for pulmonary oedema, which may develop in serious cases of poisoning even after 12 hours. At first signs of pulmonary oedema,

effective than atropine alone with respect to increasing the LD50 of technical fosthiazate in rats.

Additional doses should be given cautiously if muscle weakness persists. If intravenous administration is not feasible, intramuscular or

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

Pralidoxime chloride (2-PAM; Protopam chloride) will reactivate cholinesterase, and may be effective as an adjunct to atropine. In adults,

Some degree of atropinisation should be maintained for at least 48 hours.

Following an

footwear should be removed. Consult a doctor/medical service.

dermal exposure

Following an

systemic and the somatic motor nerves. The symptoms may include excessive sweating, headache, weakness, faintness and giddiness,

The symptoms are of cholinesterase inhibition.

4. When emptying is complete, rotate the container clockwise.

3. Rotate the container anti-clockwise to start the flow of product.

Surefill operating instructions:

dispensed is not more than is required for the area to be treated.

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

The information on this label is based on the best available information including data from test results.

To avert risks to man and the environment, comply with instructions for use.

Section 6 of the Health and Safety at Work Act

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed

ISK Biosciences Europe NV

Cambridge, CB21 5XE

CPC4, Capital Park, Fulbourn,

NEMA

® NEMATHORIN is a Registered Trademark of ISHIHARA SANGYO KAISHA, LTD.

and a reduction of potato tuber damage caused by wireworm and reduction of spraing transmitted by free-living nematodes.

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**DIRECTIONS FOR USE**

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

- **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.**

- **Some degree of atropinisation should be maintained for at least 48 hours.**

- **Reactivation of Cholinesterase**

  - **Atropine** administration should be given intramuscularly while simultaneously initiating measures for improving ventilation. Atropine administration may cause photophobia.

  - **If** photophobia persists, the individual should submit to an ophthalmologic examination.

  - **Irrigation should not be delayed for the purpose of obtaining sterile or special irrigating solutions. If pain, swelling or oedema persist, consult a doctor/medical service.**

  - **Footwear should be removed.**

  - **Consult a doctor/medical service.**

**CROP SPECIFIC INFORMATION**

- **A contact nematicide/insecticide for the control of the potato cyst nematode (Globodera rostochiensis and Globodera pallida). Also for the control of**

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

- **Application**

  - **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.**

  - **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.**

  - **Rates of Use**

    - **At the time of planting**

    - **Per centage of the label rate**

      - **Recommended**

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

**APPLICATION EQUIPMENT CLEANING PROCEDURE**

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

**Registration**

- **Product registration number: MAPP 11003**

**Approval holder:**

- **ISK Biosciences Europe NV**

- **CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE**

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**European Union Directive**

- **Commission Directive (84/356/EEC)**

- **Substances for which there are Community workplace exposure limits**

**EUH401 To avoid risks to human health and the environment comply with the instructions for use.**

**Hazard**

- **Dangerous to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**

- **Very toxic to aquatic organisms.**

- **May cause long-term adverse effects in the aquatic environment.**

- **Harmful to aquatic life with long-term effects.**

- **Harmful to aquatic life.**

- **May cause long-term adverse effects in the aquatic environment.**

- **Very toxic to terrestrial arthropods.**

- **Toxic to birds.**

- **Toxic to fish.**

- **Very toxic to fish.**

**Category 1**

- **Category 3**

**Hazardous components which must be listed on the label:**

- **Symbol(s)**

- **Pictograms**

- ** Statements**

- **R50/53**

- **P273**

- **P302/P352**

- **P363**

- **EUH401**

- **H410**

- **R37/38/39/40**

- **H317**

- **P301+P312**

- **P310**

- **P330**

- **S20/21**

- **S46**

- **H301**

- **P353**

**Website:**

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DANGEROUS FOR WASH DUST from skin or eyes immediately.

To prevent inhalation, wear a higher standard of protection.

PROTECTION (GOGGLES) AND A FILTERING FACE PIECE RESPIRATOR (APRON), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS, EYE LEAST EN 149 FFP3) when handling the product, adjusting granule the product via tractor-mounted/drawn machinery.

Do not use if under medical advice NOT to work with such compounds.

SAFETY PRECAUTIONS

IMPORTANT INFORMATION

Other specific restrictions:

Potatoes Broadcast overall application

30 kg product/ha

OPEN THE CONTAINER ONLY AS DIRECTED.

RETURN EMPTY CONTAINER TO THE SUPPLIER.

centimetres and ridging-up of treated soil must be carried out The incorporation of the product into soil to a depth of 10-15

for at least 13 weeks following treatment.

incorporated in the soil; ensure that the product is also fully

(b) Environmental protection

machinery other than that referenced on the product label.

lea˜et where possible).

IF YOU FEEL UNWELL, seek medical advice IMMEDIATELY (show this

10 15 cm. INCORPORATION TO A GREATER DEPTH WILL CAUSE A REDUCTION IN CONTROL.

type and conditions. It is important that the applicator is positioned so that the granules are uniformly incorporated to a depth of

Where application of NEMATHORIN 10G granules is to be done at the same time as stone separation, the granules should be applied

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

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

At the time of planting

PESTS CONTROLLED

and a reduction of potato tuber damage caused by wireworm and reduction of spraing transmitted by free-living nematodes.

Fine granule containing 10% w/w fosthiazate.

or
distributor a BASIS

For the latest further advice and information on optimising product application, consult your

Section 3. Composition / Information on Ingredients

2.3 Other hazards

sulfate, either by intramuscular or intravenously, dependent on severity of poisoning. Specific antidotes are oximes (e.g. Pralidoxime) or

case of poisoning. For the full text of the H-statements mentioned in this Section, see Section 16.

For the full text of the R-phrases mentioned in this Section, see Section 16.

Nematophagous microorganisms, nematophagous fungi and a Morrisville-toxic components (fosthiazate) that can cause an allergic skin reaction.

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed

(This section does not form part of the product label under the Plant Protection Products Regulations)

Design Code:

Belgium

UK Marketing Company:

R50/53

R43:

OECD: Acute aquatic toxicity

toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Acute aquatic toxicity

Hazardous components which must be listed on the label:

S2

S13

S36/37

P261

P280

P301/P310

P330

P302/P352

P363

P405

Emergency phone No.:

Fax:

May cause sensitisation by skin contact.

Toxic to terrestrial arthropods, may have harmful effect on aquatic invertebrates.

toxic to aquatic life with long lasting effects.

May cause an allergic skin reaction.

Use appropriate containment to avoid environmental contamination.

Avoid contact with skin.

When using do not eat, drink or smoke.

very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

may cause sensitisation by skin contact.

For the full text of the H-statements mentioned in this Section, see Section 16.

Toxic if swallowed.

Acute Tox.3; H331

Acute Tox.4; H312

Skin Sens.1; H317

Aquatic Acute1; H400

Aquatic Chronic1; H410

CONCENTRATION

Section 4. First-Aid Measures

For the full text of the H-statements mentioned in this Section, see Section 16.

For the full text of the R-phrases mentioned in this Section, see Section 16.