Nemathorin® 10G

syngenta.

GROUP I INSECTICIDE

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

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.

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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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.

20 kg



7-3405-300-156-14/23 | 1091573 GBBI/08A 0022/2020 NEMATHORIN 10G Fine granule containing 10% w/w fostbiazate LIEI: 7C0B-2YGX-WW89-SW3W Signal Word Danger Hazard Statements Toxic if swallowed Toxic to aquatic life with long lasting effects Precautions Statemente 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 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 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.

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

7-3405-300-156-14/23 L1091573 GBRI/08A 0022/202

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL NEMATICIDE / INSECTICIDE

	Crops	Maximum individual dose per crop	Maximum number of treatments	Latest time of application
l	Potatoes	Broadcast overall application	One per crop	At planting
l		30 kg product/ha		

Other specific restrictions:

DO NOT desiccate or harvest crops for human or animal consumption for at least 17 weeks after application

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

SAFETY PRECAUTIONS a) Onerator protection

FOSTHIAZATE is an anticholinesterase organophosphorus compound. The product must only be applied using tractor mounted Do not use if under medical advice NOT to work with such compounds. direct placement machinery. Do not apply via air-assisted placement Engineering control of operator exposure must be used where machinery other than that referenced on the product label. reasonably practicable in addition to the following personal protective

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE DANGEROUS TO LIVESTOCK, Keep all livestock out of treated PROTECTIVE GLOVES. FYE PROTECTION (GOGGLES) AND FILTERING for at least 13 weeks following treatment. FACE PIECE RESPIRATOR (DISPOSABLE FILTERING FACE PIECE TO AT To protect birds/wild mammals the product must be application machinery or handling contaminated surfaces. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying To protect birds and wild mammals remove spillages. the product via tractor-mounted/drawn machinery. APRON, SUITABLE PROTECTIVE GLOVES, BUBBER BOOTS, EYE contamination via drains from farmyards and roads.

(DISPOSABLE FILTERING FACE PIECE TO AT LEAST EN 149 FFP3) when containing fosthiazate more than once every four years.

However engineering controls may replace personal protective centimetres and ridging-up of treated soil must be carried o equipment if a COSHH assessment shows they provide an equal or immediately after application higher standard of protection.

WASHALL PROTECTIVE CLOTHING thoroughly after use, especially the (c) Storage and disposal

insides of the aloves TAKE OFF IMMEDIATELY heavily contaminated clothing WASH DUST from skin or eves 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 learet where nossible)

(b) Environmental protection

LEAST EN 149 FFP3) when handling the product, adjusting granule incorporated in the soil; ensure that the product is also fully incorporated at the end of rows.

Do not contaminate water with the product or its containe WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS AND RUBBER Do not clean application equipment near surface water. Avoid PROTECTION (GOGGLES) AND A FILTERING FACE PIECE RESPIRATOR To protect groundwater do not apply this or any other product The incorporation of the product into soil to a depth of 10-15

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.

KEEP IN OBIGINAL CONTAINER tightly closed in a safe place

SYMPTOMS OF POISONIN

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 symptom 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. Eves 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 cvanosis, atropine sulphate should be given intravenously in doses of 2 to 4 mg. When cvanosis 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 (drv. flushed skin, tachycardia, pupillary dilatation) appear Some degree of atropinisation should be maintained for at least 48 hours.

Reactivation of Cholinesteras

Pralidoxime chloride (2-PAM: Protonam chloride) will reactivate cholinesterase and may be effective as an adjunct to atronine. In adjuts 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 oractical 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 cvst 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

At the time of planting

Rates of Use

For control of potato cvst 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.

APPI ICATION

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.

 Remove the safety caps from the valve and applicator hopper Fit the container valve on to the applicator hopper. Rotate the container anti-clockwise to start the flow of product. When emptying is complete, rotate the container clockwise Remove the container from the applicator hopper. 6. Replace the safety caps on the applicator hopper and valve Return the empty containers to your supplier for recycling. Do not rinse out contained

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 WE DO NOT ALLOW THE GRANULES TO STAND OVER Ensure that the hopper and rotators are clean an Application equipment should be calibrated prior

APPLICATION EQUIPMENT CLEANING PROCED

Ensure that no or only a minimal quantity of prod recentacles over the delivery tubes, crank the an during these manipulations. The granules collect

STORAGE

Keep dry and frost proof in a suitable pesticide st

COMPANY ADVISORY INFORMATION

For the latest further advice and information on (contact Syngenta Crop Protection Technical Eng

Product registration number: MAPP 11003

Fine granule containing 10% w/w fosthiazate. A contact nematicide/insecticide for the control and a reduction of potato tuber damage caused

The (COSHH) Control of Substances Hazardous t © Syngenta AG. 2022

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® MICROBAND is a Registered Trademark of Ch

UK Marketi Approval holder: ISK Biosciences Europe NV Syngenta Pegasus Park, De Kleetlaan 12B CPC4, Cap 1831 Diegem Cambrido Belaium el: Camb

(This section does not form part of the product | The product label provides information on a spe any potential hazard involved, the safety measu permitted under the Plant Protection Products R The information on this label is based on the best

EWET OR DAMP BEFORE APPLICATION. OVERNIGHT IN THE APPLICATION HOPPER. In and dry before use. prior to use to ensure accurate dosing and incorporation. CEDURE product remains in the hoxpper after field application. Upon completion, place suitable the applicator and collect the remaining granules. <u>Comply with operator safety measures</u> olected should be disposed in appropriate chemical waste.	SAFETY DATA SHEET - V10 SECTION 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier Trade name: NEMATHORIN 10 G Design code: A12842A Product Registration Number: MAPP 11003 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/Mixture: Nematicide 1.3 Details of the supplier of the safety data sheet	Supplemental Hazard Statements EUH401 To avoid risks to human health and the environment comply with the instructions for use. EUH200 Contains fostihiazate. May produce an allergic reaction. EUH070 Toxic by eye contact. Precautionary Statements P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P310+P330 IF SWALLOWED: Immediately call a PDISON EXTER/Jochcr Rinse mouth.	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Sens. 1; H317 Aquatic Acute 1; H410 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Concentration (% w/w) $\geq = 10 - < 20$ For explanation of abbreviations see section 16.	4.3 Indication of any immediate medical attention and special treatment needed Treatment: Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulphate as antidote. Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.	Environmental precautions: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.	ventilated place. Keep out of the reach of child away from food, drink and animal feedingstuf 7.3 Specific end use(s) Specific use(s): For proper and safe use of thi please refer to the approval conditions laid do product label. SECTION 8. EXPOSURE CONTROLS/P
ide store between 0 and 32oC.				SECTION 5. FIRE-FIGHTING MEASURES 5.1 Extinguishing media Suitable extinguishing media:		PROTECTION 8.1 Control parameters Contains no substances with occupational
on optimising product application, consult your distributor, a BASIS qualified agronomist or Enquires on 0800 169 6058.	Company: Syngenta UK Ltd CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE	P391 Collect spillage. P405 Store locked up.	SECTION 4. FIRST AID MEASURES 4.1 Description of first aid measures	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. Clean with	limit values. 8.2 Exposure controls Engineering measures
le. triv of the potato cyst nematode (Globodera rostochiensis and Globodera pallida) sed by wireworm and reduction of spraing transmitted by free-living nematodes. Sus to Health Regulations may apply to the use of this product at work.	Telephone: +44 (0) 1223 883400 Telephone: +44 (0) 1223 883400 Telefax: +44 (0) 1223 882195 E-mail address of person responsible for the SDS: customer.services@syngenta.com 1.4 Emergency telephone number Emergency telephone number +44 (0) 1484 538444 SECTION 2. HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) Acute toxicity, Category 3 - H301: Toxic if swallowed. Long-term (chronic) aquatic hazard, Category 2 - H411: Toxic to aquatic life with long lasting effects. 2.2 Label elements Labelling: Regulation (EC) No. 1272/2008 Hazard pictograms	Hazardous components which must be listed on the label: fosthiazate (ISO) 2.3 Other hazards	General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment. If inhaled: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately. In case of skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use. In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required. If swallowed: If swallowed, seek medical advice	Extinguishing media - large fires	detergents. Avoid solvents. Retain and dispose of contaminated wash water. 6.4 Reference to other sections For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.	Containment and/or segregation is the most containment and/or segregation is the most technical protection measure if exposure of eliminated. The extent of these protection is depends on the actual risks in use. Ma concentrations below occupational exposure so Where necessary, seek additional occupational advice. Personal protective equipment Eye protection : Tightly fitting safety goggle wear eye protection when the potential for ina eye contact with the product cannot be Equipment should conform to EN 166 Hand protection Remarks : No special protective equipment red Skin and body protection : No special equipment required. Select skin and body p based on the physical job requirements. Respiratory protection : No ersonal r
of ISHIHARA SANGYO KAISHA, LTD. If Chafer Machinery Limited PROTECT FROM FROST arketing Company: nta UK Ltd Capital Park, Fulbourn, ridge, C821 558 ambridge (01223), 883400 This product label is compliant with the CPA Voluntary Initiative (VI) guidance.		This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds. May form combustible dust concentrations in air.			7.1 Precautions for safe handling Advice on safe handling: This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents. Avoid handled in the presence of flammable solvents. Avoid	
Section 6 of the Health and Safety at Work Act Additional Product Safety Information uct label under the Plant Protection Products Regulations) specific pesticidal use of the product; do not use otherwise, unless you have assessed assures required and that the particular use has "Extension of Use' approval or is otherwise		SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS 3.2 Mixtures Components				
ts Regulations. e best available information including data from test results.	Signal Word Danger	Chemical Name fosthiazate (ISO) CAS-No. EC-No. Index-No. Registration number	immediately and show this container or label. Do NOT induce vomiting. 4.2 Most important symptoms and effects, both acute and delayed	SECTION 6. ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and	contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8. 7.2 Conditions for safe storage, including any incompetibilities	protective equipment normally required. When are facing concentrations above the exposure must use appropriate certified respirators.

Diarrhoea, Vomiting,

Symptoms: Poisoning produces effects associated v

anticholinesterase activity which may include: Nause

Hazard Statements

H301 Toxic if swallowed H411 Toxic to aquatic life with long lasting effects

015-168-00-0

98886-44-

ep out of the reach of children. Keep nk and animal feedingstuffs

proper and safe use of this product. pproval conditions laid down on the

POSURE CONTROLS/PERSONAL

tances with occupational exposure

segregation is the most reliable measure if exposure cannot h ent of these protection measures actual risks in use. Maintain ai v occupational exposure standards eek additional occupational hygiene

incomnatibilitie

Requirements for storage areas and containers: Keep

containers tightly closed in a dry, cool and well-

emergency procedures

Personal precautions: Refer to protective measures

listed in sections 7 and 8. Avoid dust formation

ahtly fitting safety googles. Always when the potential for inadvertent the product cannot be excluded. onform to FN 166

ial protective equipment required.

rotection : No special protective . Select skin and body protection al iob requirements.

ction : No personal respiratory ent normally required. When workers rations above the exposure limit they

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal

protective equipment, sea advice.	ek appropriate professional	9.2 0 No da
	D CHEMICAL PROPERTIES ic physical and chemical pellets red brown	SECT 10.1 None 10.2 Stabl
Odour:	characteristic	10.3
Odour. Odour Threshold:	No data available	Hazai
odour miesnolu. pH:	8.61	under
μn.	Concentration: 1 % w/v	10.4
Melting point/range:	No data available	Cond
Boiling point/boiling range:		direct
Flash point:	No data available	10.5
Evaporation rate:	No data available	Mate
Flammability (solid, gas):	May form combustible dust	10.6
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	concentrations in air.	Haza
Upper explosion limit /		decor
Upper flammability limit:	No data available	
Lower explosion limit /	No. data available	SECT
Lower flammability limit:	No data available	11.1
Vapour pressure:	No data available	Inforr
Relative vapour density:	No data available	Inhala
Density: Bulk density:	1.13 g/cm ³ (25 °C) 0.435 kg/dm ³	Acut
Solubility(ies)	0.435 kg/uill ^o	Prod
Solubility in other solvents:	diaparaibla	Acute
Solubility in other solvents.	Solvent: Water	LD50
Partition coefficient:	Solvent. water	Acute
n-octanol/water:	No data available	Acute
Auto-ignition temperature:	No data available	Expos
Decomposition temperature: Viscosity	No data available	Test a Meth
Viscosity, dynamic:	No data available	Acute
Explosive properties:	Not explosive	LD50
Oxidizing properties:	The substance or mixture is not classified as oxidizing.	Asses derm

Other Information data available CTION 10. STABILITY AND REACTIVITY Reactivity e reasonably foreseeable. Chemical stability able under normal conditions Possibility of hazardous reactions ardous reactions: No dangerous reaction know er conditions of normal use Conditions to avoid nditions to avoid : No decomposition if used Incompatible materials terials to avoid · None knowr Hazardous decomposition products ardous decomposition products: No hazardou composition products are known. CTION 11. TOXICOLOGICAL INFORMATION Information on toxicological effects ormation on likely routes of exposure: Indestion alation Skin contact Eve contact te toxicity ute oral toxicity: 50 (Rat. male and female): 230 - 440 mg/kg te inhalation toxicity: te toxicity estimate: > 5 mg/ posure time: 4 h t atmosphere: dust/mist thod: Calculation method ute dermal toxicity: 50 (Rat): > 2,000 mg/kgsessment: The substance or mixture has no acute ermal toxicity

Components fosthiazate (ISO Acute oral toxicity LD50 (Rat. female): 57 mg/kg LD50 (Rat, male): 73 mg/kg Acute inhalation toxicity: LC50 (Bat, female): 0.56 mg/l Exposure time: 4 h Test atmosphere: dust/mist LC50 (Rat. male): 0.83 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity: LD50 (Bat, female); 853 mg/kg LD50 (Bat_male): 2 373 mg/kg Skin corrosion/irritation Result: No skin irritation omponents fosthiazate (ISO Species: Rabbit Result: No skin irritation Serious eve damage/eve irritation Result: No eve irritation Component fosthiazate (ISO Species: Rabbit Result: No eve irritation Respiratory or skin sensitisatio Result: Does not cause skin sensitisation Components fosthiazate (ISO): Result: May cause sensitisation by skin contact Germ cell mutagenicit Components: fosthiazate (ISO) Germ cell mutagenicity- Assessment: Based on

available data, the classification criteria are not met. Carcinogenicit Components: fosthiazate (ISO): Carcinogenicity - Assessment: Based on available data the classification criteria are not met Reproductive toxicity Components: fosthiazate (ISO): Reproductive toxicity - Assessment: Based on available data, the classification criteria are not met. STOT - single exposure Components fosthiazate (ISO): Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure Components: fosthiazate (ISO) Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure Further information Components: fosthiazate (ISO): Remarks: Toxic by eye contact SECTION 12, ECOLOGICAL INFORMATION 12.1 Toxicity Toxicity to daphnia and other aquatic invertebrates: EC50 (Danhnia magna (Water flea)): 4 94 mg/l Exposure time: 48 h Components: fosthiazate (ISO) Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 114 ma/l Exposure time: 96 h Toxicity to daphnia and other aquatic invertebrates: persistent, bioaccumulating and toxic (PBT).

:C50 (Daphnia magna (Water flea)): 0.282 mg/l xposure time: 48 h <i>I</i> -Factor (Acute aquatic toxicity): 1 foxicity to fish (Chronic toxicity): NOEC: 1.65 mg/l xposure time: 28 d	This substance is not considered to be very persiste and very bioaccumulating (vPvB). 12.6 Other adverse effects No data available			
pecies: Oncorhynchus mykiss (rainbow trout) oxicity to daphnia and other aquatic invertebrates Chronic toxicity): NOEC: 0.06 mg/l xposure time: 21 d pecies: Daphnia magna (Water flea) A-Factor (Chronic aquatic toxicity): 1 12.2 Persistence and degradability Components: osthiazate (ISO): stability in water: Degradation half life: 22 - 49 d kemarks: Product is not persistent. 2.3 Bioaccumulative potential Components:	SECTION 13. DISPOSAL CONSIDERATION 13.1 Waste treatment methods Product: Do not contaminate ponds, waterway or ditches with chemical or used container. Do n dispose of waste into sewer. Where possible recyclin is preferred to disposal or incineration. If recycling not practicable, dispose of in compliance with loc regulations. Contaminated packaging: Empty remaining content Triple rinse containers. Empty containers should b taken to an approved waste handling site for recyclin or disposal. Do not re-use empty containers. Waste Code: uncleaned packagings. 15011			
osthiazate (ISO): Bioaccumulation: Species: Lepomis macrochirus Bluegill sunfish)	packaging containing residues of or contaminated I hazardous substances			
Exposure time: 672 h	SECTION 14. TRANSPORT INFORMATION			
Bioconcentration factor (BCF): 2.3 - 4.5	14.1 UN number			
Remarks: Low bioaccumulation potential.	ADN: UN 2783			
Partition coefficient: n-octanol/water: log Pow: 1.752	ADR: UN 2783			
2.4 Mobility in soil	RID: UN 2783			
lo data available	IMDG: UN 2783			
2.5 Results of PBT and vPvB assessment	IATA : UN 2783			
Product:	14.2 UN proper shipping name			
Assessment : This substance/mixture contains to components considered to be either persistent,	ADN : ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (FOSTHIAZATE)			
pioaccumulative and toxic (PBT), or very persistent and	ADR : ORGANOPHOSPHORUS PESTICIDE, SOLID,			
very bioaccumulative (vPvB) at levels of 0.1% or higher.	TOXIC (FOSTHIAZATE)			
Components:	RID: ORGANOPHOSPHORUS PESTICIDE, SOLID,			
osthiazate (ISO):	TOXIC (FOSTHIAZATE)			
Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).	IMDG: ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (FOSTHIAZATE)			

14.3 Transport hazard class(es) ADN: 6.1 ADR : RID: 6.1 IMDG: 6.1 IATA: 6.1 not 14.4 Packing group Packing group : III Classification Code · T7 Hazard Identification Number : 60 Labels : 6.1 ADR Packing group: III Classification Code: T7 Hazard Identification Number: 60 Labels: 6.1 Tunnel restriction code: (F) Packing group: III Classification Code: T7 Hazard Identification Number: 60 Labels: 6.1 IMDG Packing group: I Labels: 6.1 EmS Code: F-A. S-/ IATA (Cargo) Packing instruction (cargo aircraft): 677 Packing instruction (LQ): Y645 Packing group: III Labels: Toxic IATA (Passenger Packing instruction (passenger aircraft): 67 Packing instruction (LQ): Y645

(FOSTHIAZATE)

istent IATA : Organophosphorus pesticide, solid, toxic

Labels: Toxic Miscellaneous

14.5 Environmental hazard

Environmentally hazardous : v

Packing group: III

Environmentally hazardous · v

Environmentally hazardous : v

Marine pollutant : ves

14.6 Special precautions for user

The transport classification(s) provided herein an informational purposes only, and solely based the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportati classifications may vary by mode of transportatio package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulation legislation specific for the substance or mixture BEACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).: Not applicable **BEACH** - List of substances subject to authorisation (Annex XIV): Not applicable Regulation (EC) No 1005/2009 on substances that deplete the ozone laver. Not applicable Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable Regulation (EC) No 649/2012 of the European Parlia ment and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances. preparations and articles (Annex XVII): Not applicable Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances

Quantity 1 Quantity 2 H2 ACLITE TOXIC 50 t 200 t E2 ENVIRONMENTAL HAZARDS 200 t 500 t

Other regulations:

health and safety of workers from the risks related to Agency: EC-Number - European Community number; chemical agents at work. Use plant protection products FCx - Concentration associated with x% response: safely. Always read the label and product information before use. Take note of Directive 92/85/EEC regarding FmS - Emergency Schedule: ENCS - Existin maternity protection or stricter national regulations, Chemical Substances (Japan) FrCx - Concentration where applicable. Take note of Directive 94/33/EC on associated with x% growth rate response: GHS the protection of young people at work or stricter national regulations, where applicable

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16. OTHER INFORMATION Full text of H-Statements H301: Toxic if swallowed H311: Toxic in contact with skin.

H317: May cause an allergic skin reaction. H331: Toxic if inhaled. H410: Verv toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effect? Full text of other abbreviations Acute Tox · Acute toxicity Aquatic Acute:

Acute aquatic toxicit Aquatic Chronic Chronic aquatic toxicit Skin Sens.: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Boad: AICS - Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials: hw - Body weight: CLP - Classification Labelling Packaging Regulation: Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DSL - Domestic Take note of Directive 98/24/EC on the protection of the Substances List (Canada): ECHA - European Chemicals - Loading rate associated with x% response: Globally Harmonized System: GLP - Good Laboratory Practice: IABC - International Agency for Research or Cancer: IATA - International Air Transport Association: IBC - International Code for the Construction

Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMC International Maritime Organization: ISHL - Industrial Safety and Health Law (Janan): ISO International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population: LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose). MARPOL International Convention for the Prevention of Pollution from Shins: n.o.s. - Not Otherwise Specified: NO(A) EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELB - No Observable Effect Loading Rate: NZIoC - New

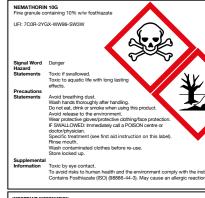
Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Developmen OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent Bioaccumulative and Tox substance: PICCS - Philippines Inventory of Chemical and Chemical Substances: (0)SAB - (Quantitative Structure Activity Belationship: BEACH - Begulation (EC) No 1907/2006 of the European Parliament a of the Council concerning the Begistration Evaluation Authorisation and Restriction of Chemicals: RI Regulations concerning the International Carriage Dangerous Goods by Bail: SADT - Self-Acceleration Decomposition Temperature: SDS - Safety Data Sheet SVHC - Substance of Very High Concern: TCSI - Taiwa Chemical Substance Inventory: TRGS - Technical Bui for Hazardous Substances: TSCA - Toxic Substance Control Act (United States): UN - United Nations: vPvB Very Persistent and Very Bioaccumulativ Classification o Classification

Further information

the mixture: procedure: Acute Tox, 3 H301 Based on product data or assessment

Aquatic Chronic 2 H411 Calculation method

The information provided in this Safety Data Sheet i correct to the best of our knowledge, information an belief at the date of its publication. The information given is designed only as a guidance for safe handling use, processing, storage, transportation, disposal a release and is not to be considered a warranty quality specification. The information relates only the specific material designated and may not be vali for such material used in combination with any other materials or in any process, unless specified in the text



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IMPORTANT INFORMATION

FOR LISE ONLY AS AN AGRICULTURAL NEMATICIDE / INSECTICIDE Crons: Potatoes Maximum individual dose per crop. Maximum number treatments. Latest time of application au restrictions; Full details are given in IMPORTANT INFORMATION on attached leaflet

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTEN LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTEC

3RI/08A 0022/2020
77
uctions for use.
Other specific
WITH THE ON PRODUCTS.
MAPP 11003