

750ml

approx. measure



SL567A[®]

GROUP 4 FUNGICIDE
F

Soluble Liquid containing 465.2 g/l (44.7% w/w) metalaxyl-M

A soil-applied fungicide for the reduction of "cavity spot" disorder in carrots.

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

Approval holder and UK marketing company	Irish marketing company
Syngenta UK Ltd CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE Tel: Cambridge (01223) 883400	Syngenta Ireland Ltd Industrial Park, Cork Road Waterford, Tel :051-377203

In case of toxic or transport emergency ring +44 (0)1484 538444 any time
**PROTECT FROM FROST
STORE IN A COOL, DRY PLACE**

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


1 Litre



085906

FOR PROFESSIONAL USE ONLY
To avoid risks to human health and the environment comply with the instructions for use.

Soluble Liquid containing 465.2 g/l (44.7% w/w) metalaxyl-M.

Warning
Harmful if swallowed.
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.

Keep out of reach of children.

Avoid release to the environment.

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

IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Collect spillage

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

MAPP: 12380. PCS No.: 03106. UFI: UJC3-TOD0-WOOM-R1M6

IMPORTANT INFORMATION
FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

For use on: Carrots

Maximum Individual Dose	Maximum Total Dose	Latest Time of application
1.3 litres product per hectare	1.3 litres product per hectare per crop	6 weeks after drilling

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) Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate. However engineering controls may replace personal protective equipment if a COSH assessment shows they provide an equal or higher standard of protection.

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

TAKE OFF IMMEDIATELY all contaminated clothing.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

AFTER CONTACT WITH SKIN OR EYES, WASH IMMEDIATELY with plenty of water.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental protection

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.

(c) Storage and disposal
KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. DO NOT RE-USE CONTAINER for any purpose.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

 Tracing data is printed on booklet spine.
L & PPE numbers must be set vertically
in both bottom corners with a white
background behind them.
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L1093753 GBR/09A PPE 4170230

250ml

L1093753 GBR/09A PPE 4170230

FRONT PAGE ARTWORK MUST BE DUPLICATED IN LEFT AND RIGHT FORMAT. PRINT SUPPLIER TO REMOVE ONE FRONT PAGE ACCORDING TO SITE DESTINATION.

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syngenta.

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The
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Initiative



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500ml

PRINT SUPPLIER:
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250ml

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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

Resistant strains of *Pythium* spp. may develop against which SL 567A may be ineffective resulting in crop loss.

Consult processor before using on crops for processing.

Crop Rotation

SL 567A should not be used where carrots have been grown on the same site within the previous eight years. Levels of *Pythium* spp. in the soil are likely to be increased where carrots or other root crops are included at shorter intervals in the rotation. Such an increased disease inoculum will lead to higher levels of cavity spot on carrots.

Integrated Crop Management Strategy

SL 567A is only one component in the crop husbandry package necessary to ensure reduction of 'cavity spot' disorder and production of quality carrots. Consult Syngenta UK Ltd, your agronomist or chemical distributor for the latest information before using SL 567A.

Effect of Soil Type on Cavity Spot Control

Trials results show that on mineral soils, control in the order of 60-90% is usually to be expected.

For soils with a high organic matter content a reduction of efficacy may be observed and SL 567A may not give satisfactory levels of control. Trials results show that control in the order of 50-80% is usually to be expected.

N.B. Evidence is becoming available suggesting that the rate of degradation of metalaxyl-M in soil may vary between fields. Where degradation is rapid, then the expected level of "cavity spot" reduction will not be achieved. Addition of extraneous organic material into the soil e.g. sewerage waste or sugar beet tops may also increase the rate of metalaxyl-M degradation, since this acts as an alternative food source and will encourage multiplication of natural microbial levels in the soil.

Period of Protection

Maincrop carrots over wintered in the ground or lifted during the winter may suffer late attacks of "cavity spot" from which the recommended applications of SL 567A may not give expected levels of control.

DISEASES CONTROLLED

SL 567A is a soluble liquid containing 465.2 g/l (44.7% w/w) metalaxyl-M which is used as a fungicide for the reduction of "cavity spot" disorder in carrots.

SL 567A is capable of reducing levels of several pathogens known to be associated with "cavity spot" disorder in carrots (*Pythium* spp.). *Pythium violae*, the main causative organism is sensitive to metalaxyl-M, but not *P. sulcatum*, a less important component of the soil microflora.

CROP SPECIFIC INFORMATION

Crops

SL 567A may be used on all varieties of carrots. Choose varieties with the highest natural resistance to cavity spot disorder to minimise disease on the root. No varieties have total disease resistance.

Timing

Apply the full dose of SL 567A as soon as possible after drilling irrespective of crop growth stage, but no later than 6 weeks post drilling. Although soil moisture is required for activity of SL 567A, the moisture level at application is not critical to achieving control of cavity spot. Heavy rain in the period after spraying will reduce the effectiveness of SL 567A. Best results will be achieved when application is made to damp soil.

Dose

1.3 litres SL 567A per hectare.

MIXING AND SPRAYING

Spray Volume

Apply the recommended quantity of SL 567A in 1000 litres of water per hectare.

Mixing

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of clean water and start agitation. Add the required amount of SL 567A and continue agitation whilst adding the rest of the water. Agitate the mixture thoroughly before use and continue agitation during spraying.

Immediately after use, clean the spray equipment thoroughly. Drain the system completely and rinse spray tank, boom and nozzles, two or three times with clean water until the foam and all traces of product have been removed.

Section 6 of the Health and Safety at Work Act Additional Product Safety Information

(This section does not form part of the product label under the Plant Protection Products Regulations 1995.) (UK only)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'Extension of Use' approval or is otherwise permitted under the Plant Protection Products Regulations. (UK only)

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

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product Identifier**

Product Name: SL567A
 Design Code: A13947A
 Product Registration Number : MAPP 12380
 Unique Formula Identifier (UFI): UJ3-TD0-W00M-R1M6

1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Fungicide

Recommended restrictions on use: professional use

1.3 Details of the supplier of the safety data sheet

Company : Syngenta UK Limited
 CPC4, Capital Park, Fulbourn, Cambridge CB21 5XE, United Kingdom
 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 1484 538444

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**


Acute toxicity, Category 4 - H302: Harmful if swallowed.

Eye irritation, Category 2 - H319: Causes serious eye irritation.

Long-term (chronic) aquatic hazard, Category 3 - H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms		
		
Signal Word	Warning	
Hazard Statements	H302 H319 H412	Harmful if swallowed. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	EUH401	To avoid risks to human health and the environment comply with the instructions for use.
Precautionary Statements	P102 P264 P270 P280 P301+P312	Keep out of reach of children. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P302+P352
 P305+P351+P338
 P337+P313
 P391
 P501

IF ON SKIN: Wash with plenty of soap and water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 Collect spillage.
 Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty triple rinsed containers which can be disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

- metalaxyl-M (ISO)
- acetophenone
- heptan-2-one
- amines, tallow alkyl, ethoxylated

2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**3.2 Mixtures****Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
metalaxyl-M (ISO)	70630-17-0 612-163-00-0	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 30 - < 50
acetophenone	98-86-2 202-708-7 606-042-00-1 01-2119533169-37	Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 10 - < 20
heptan-2-one	110-43-0 203-767-1, 606-024-00-3	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
amines, tallow alkyl, ethoxylated	61791-26-2 500-153-8	Acute Tox. 4; H302 Acute Tox. 2; H330 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 1 - < 2.5
dodecylbenzene sulphonic acid	85536-14-7 287-494-3	Acute Tox. 4; H302 Skin Corr. 1C; H314 Aquatic Chronic 2; H411	>= 1 - < 2.5

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center 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 immediately and show this container or label. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Nonspecific. No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: There is no specific antidote available. Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires: Alcohol-resistant foam

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

Flash back possible over considerable distance.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.

Further information : Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Pay attention to flashback.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes. When using do not eat, drink or smoke. Use only in an area containing flame proof equipment. Take precautionary measures against static discharges. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and wellventilated place. Keep out of the reach of children. Keep away from combustible material. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feedingsuffs. No smoking. Further information on storage stability: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

7.3 Specific end use(s)

Specific use(s) : For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
metalaxyl-M (ISO)	70630-17-0	TWA	5 mg/m ³	Syngenta
propane-1,2-diol	57-55-6	TWA (particles)	10 mg/m ³	GB EH40
		TWA (Total vapour and particles)	150 ppm 474 mg/m ³	GB EH40
heptan-2-one	110-43-0	TWA	50 ppm 238 mg/m ³	2000/39/EC
			Further information: Identifies the possibility of significant uptake through the skin, Indicative	
		STEL	100 ppm 475 mg/m ³	2000/39/EC
			Further information: Identifies the possibility of significant uptake through the skin, Indicative	
		TWA	50 ppm 2 37 mg/m ³	GB EH40

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
		Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		
		STEL	100 ppm 475 mg/m ³	GB EH40
		Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m ³
	Consumers	Inhalation	Long-term local effects	10 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	30 mg/m ³
	Workers	Inhalation	Long-term local effects	10 mg/m ³
heptan-2-one	Workers	Inhalation	Short-term exposure, Systemic effects	1516 mg/m ³
	Workers	Inhalation	Long-term systemic effects	394.25 mg/m ³
	Workers	Skin contact	Long-term systemic effects	54.27 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	23.32 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	84.31 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	23.32 mg/kg bw/day
dodecylbenzene sulphonic acid	Workers	Inhalation	Long-term systemic effects	7.6 mg/m ³
	Workers	Dermal	Long-term systemic effects	119 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.3 mg/m ³
	Consumers	Dermal	Long-term systemic effects	42.5 mg/kg
acetophenone	Consumers	Oral	Long-term systemic effects	0.425 mg/kg
	Workers	Inhalation	Long-term systemic effects	22 mg/m ³
	Workers	Dermal	Long-term systemic effects	6.3 mg/kg
	Consumers	Inhalation	Long-term systemic effects	5.4 mg/m ³
	Consumers	Dermal	Long-term systemic effects	3.1 mg/kg
Consumers	Oral	Long-term systemic effects	3.1 mg/kg	

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
propane-1,2-diol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Marine sediment	57.2 mg/kg
	Fresh water sediment	572 mg/kg
heptan-2-one	Soil	50 mg/kg
	Water	0.0982 mg/l
	Marine water	0.0982 mg/l
	Freshwater - intermittent	0.982 mg/l

Substance name	Environmental Compartment	Value
	Fresh water sediment	1.89 mg/kg
	Marine sediment	0.189 mg/kg
	Soil	0.321 mg/kg
	Sewage treatment plant	12.5 mg/l
dodecylbenzene sulphonic acid	Fresh water	0.268 mg/l
	Marine water	0.027 mg/l
	Sewage treatment plant	3.43 mg/l
	Fresh water sediment	8.1 mg/kg
	Marine sediment	6.8 mg/kg
acetophenone	Soil	35 mg/kg
	Fresh water	0.086 mg/l
	Marine water	0.009 mg/l
	Fresh water sediment	1.13 mg/kg
	Marine sediment	0.113 mg/kg
	Soil	0.175 mg/kg
	Sewage treatment plant	34.6 mg/l

8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection: Tightly fitting safety goggles. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Equipment should conform to EN 166

Hand protection

Remarks : No special protective equipment required.

Skin and body protection : No special protective equipment required. Select skin and body protection based on the physical job requirements.

Respiratory protection : No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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

When selecting personal protective equipment, seek appropriate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow to orange

Odour : like ketone

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit: No data available

Flash point : 80 °C. Method: Seta closed cup

Auto-ignition temperature : 385 °C

Decomposition temperature: No data available

pH : 6 - 10. Concentration: 1 % w/v

Viscosity, dynamic : 21.0 mPa.s (40 °C)

Viscosity, kinematic : No data available

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: octanol/water: No data available

Vapour pressure : No data available

Density : 1.06 g/cm³ (20 °C)

Relative vapour density : No data available

Particle size : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

Miscibility with water : Miscible

Surface tension : 35.1 mN/m, 20 °C

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure: Ingestion, Inhalation, Skin contact, Eye contact

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, female): 550 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.58 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Components:

metalaxyl-M (ISO):

Acute oral toxicity : LD50 (Rat, female): 375 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.29 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: Highest attainable concentration

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

heptan-2-one:

Acute oral toxicity : LD50 (Rat): 1,600 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 16.7 mg/l

Exposure time: 4 h

Test atmosphere: vapour

amines, tallow alkyl, ethoxylated:

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg

Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): 0.473 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

dodecylbenzene sulphonic acid:

Acute oral toxicity : LD50 (Rat, male and female): 1,470 mg/kg

Skin corrosion/irritation

Product:

Species : Rabbit

Result : No skin irritation

Components:

metalaxyl-M (ISO):

Species : Rabbit

Result : No skin irritation

dodecylbenzene sulphonic acid:

Species : Rabbit

Result : Corrosive after 1 to 4 hours of exposure

Respiratory or skin sensitisation

Product:

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

Components:

metalaxyl-M (ISO):

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Components:

metalaxyl-M (ISO):

Species : Rabbit

Result : Risk of serious damage to eyes.

acetophenone:

Result : Eye irritation

amines, tallow alkyl, ethoxylated:

Result : Risk of serious damage to eyes.

Remarks : Information given is based on data obtained from similar substances.

Germ cell mutagenicity

Components:

metalaxyl-M (ISO):

Germ cell mutagenicity - Assessment: Animal testing did not show any mutagenic effects.

dodecylbenzene sulphonic acid:

Germ cell mutagenicity - Assessment: In vitro tests did not show mutagenic effects

Carcinogenicity Components: metalaxyl-M (ISO): Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.	Reproductive toxicity Components: metalaxyl-M (ISO): Reproductive toxicity - Assessment: No toxicity to reproduction
STOT - single exposure Components: heptan-2-one: Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	STOT - repeated exposure Components: metalaxyl-M (ISO): Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 15 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 61 mg/l
 Exposure time: 48 h

Toxicity to algae/aquatic plants: ErC50 (Raphidocelis subcapitata (freshwater green alga)): 39 mg/l
 Exposure time: 72 h
 NOEC (Raphidocelis subcapitata (freshwater green alga)): 10 mg/l
 End point: Growth rate
 Exposure time: 72 h

Components:

metalaxyl-M (ISO):
 Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l
 Exposure time: 48 h

Toxicity to algae/aquatic plants: ErC50 (Raphidocelis subcapitata (freshwater green alga)): 271 mg/l
 Exposure time: 96 h
 NOEC (Raphidocelis subcapitata (freshwater green alga)): 19.7 mg/l
 End point: Growth rate
 Exposure time: 96 h

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
 Exposure time: 3 h

Toxicity to fish (Chronic toxicity): NOEC: 50 mg/l

Toxicity to daphnia and other aquatic invertebrates
 (Chronic toxicity):

Exposure time: 28 d
 Species: Oncorhynchus mykiss (rainbow trout)

NOEC: 25 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)

acetophenone:

Toxicity to algae/aquatic plants: ErC50 (Raphidocelis subcapitata (freshwater green alga)): 86.4 mg/l
 Exposure time: 72 h

Ecotoxicology Assessment

Acute aquatic toxicity - This product has no known ecotoxicological effects.

heptan-2-one:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

amines, tallow alkyl, ethoxylated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 - 10 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
 aquatic invertebrates
 Exposure time: 48 h

Toxicity to algae/aquatic plants: EC50 (algae): > 1 - 10 mg/l
 Exposure time: 72 h
 NOEC (algae): 0.05 mg/l
 Exposure time: 72 h

dodecylbenzene sulphonic acid:

Toxicity to fish : LC50 (Fish): 1.67 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 2.9 mg/l
 Exposure time: 48 h

Toxicity to algae/aquatic plants: EbC50 (green algae): 29 mg/l
 Exposure time: 96 h
 NOEC (green algae): 0.58 mg/l
 Exposure time: 96 h

Toxicity to fish (Chronic toxicity): NOEC: 0.63 mg/l
 Exposure time: 196 d
 Species: Fish

Toxicity to daphnia and other aquatic invertebrates
 (Chronic toxicity):

NOEC: 1.41 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Components:

metalaxyl-M (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 22.4 - 47.5 d

Remarks: Product is not persistent.

acetophenone:

Biodegradability : Result: Readily biodegradable.

amines, tallow alkyl, ethoxylated:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential**Components:****metalaxyl-M (ISO):**

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: noctanol/ water: log Pow: 1.71 (25 °C)

12.4 Mobility in soil**Components:****metalaxyl-M (ISO):**

Distribution among environmental compartments: Remarks: Metalaxyl has a range from low to very high mobility in soil depending on soil type.

Stability in soil : Dissipation time: < 50 d

Percentage dissipation: 50 % (DT50)

Remarks: Product is not persistent.

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : 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.

Components:**metalaxyl-M (ISO):**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

acetophenone:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

dodecylbenzene sulphonic acid:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

Waste Code: uncleaned packagings. 15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14. TRANSPORT INFORMATION

14.1 UN number or ID number Not regulated as a dangerous good	14.5 Environmental hazards Not regulated as a dangerous good
14.2 UN proper shipping name Not regulated as a dangerous good	14.6 Special precautions for user Not applicable
14.3 Transport hazard class(es) Not regulated as a dangerous good	14.7 Maritime transport in bulk according to IMO instruments Not applicable for product as supplied.
14.4 Packing group Not regulated as a dangerous good	

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Conditions of restriction for the following entries should be considered: Number on list 3 heptan-2-one
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59):. Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: 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. Not applicable

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Use plant protection products safely. Always read the label and product information before use. Take note of Directive 92/85/EEC regarding maternity protection 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**

H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

H330 : Fatal if inhaled.

H332 : Harmful if inhaled.

H336 : May cause drowsiness or dizziness.

H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Flam. Liq. : Flammable liquids

Skin Corr. : Skin corrosion

STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a

first list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2000/39/EC / TWA : Limit Value - eight hours

2000/39/EC / STEL : Short term exposure limit

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - 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 Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and 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; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); 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 Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self- Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Acute Tox. 4	H302	Based on product data or assessment
Eye Irrit. 2	H319	Based on product data or assessment
Aquatic Chronic 3	H412	Calculation method

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GROUP 4 FUNGICIDE



Soluble Liquid containing 465.2 g/l (44.7% w/w) metalaxyl-M

A soil-applied fungicide for the reduction of "cavity spot" disorder in carrots.

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

Approval holder and UK marketing company	Irish marketing company
Syngenta UK Ltd CPC4, Capital Park, Foulbourn, Cambridge, CB21 5XE Tel: Cambridge (01223) 883400	Syngenta Ireland Ltd Industrial Park, Cork Road Waterford, Tel :051-377203

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

PROTECT FROM FROST
STORE IN A COOL, DRY PLACE



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

The
Voluntary
Initiative

1 Litre



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FOR PROFESSIONAL USE ONLY

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

Soluble Liquid containing 465.2 g/l (44.7% w/w) metalaxyl-M

Warning

Harmful if swallowed.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Keep out of reach of children.

Avoid release to the environment.

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

IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Collect spillage

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

MAPP: 12380. PCS No.: 03106. UFI: UJC3-T0D0-W00M-R1M6



IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

For use on: Carrots

Maximum Individual Dose	Maximum Total Dose	Latest Time of application
1.3 litres product per hectare	1.3 litres product per hectare per crop	6 weeks after drilling

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) Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate. However engineering controls may replace personal protective equipment if a COSH assessment shows they provide an equal or higher standard of protection.

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

TAKE OFF IMMEDIATELY all contaminated clothing.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

AFTER CONTACT WITH SKIN OR EYES, WASH IMMEDIATELY with plenty of water.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental protection

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.

(c) Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. DO NOT RE-USE CONTAINER for any purpose.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

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