

Avatar[®]

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A systemic multi-site fungicide for the control of 'damping-off' caused by *Pythium* spp for lettuce, tomato, melon and cucumber seedlings during propagation under protection.
Also, for protected crops of tomato, melon and cucumber against *Pythium* when applied through drip irrigation.

MAPP 16608

A soluble concentrate containing propamocarb (530.0 g/L) and fosetyl (310.0 g/L)

Marketing Company:

Everris Ltd, Epsilon House
West Rd, Ipswich, IP3 9FT
Telephone: 01473 237100

**For 24 hour emergency information
contact Everris Ltd: 01865 407333**

Approval Holder:

Bayer CropScience Ltd
230 Cambridge Science Park
Milton Road
Cambridge CB4 0WB



GB84405183a rA2b

ICL

Safety Information

Avatar

Contains 530.0 g/L (47.32%)
propamocarb and 310.0 g/L (27.68%)
fosetyl



Warning

May cause an allergic skin reaction

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

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

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

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

SAFETY PRECAUTIONS

Operator Protection

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

Wear suitable protective clothing (coveralls) and suitable protective gloves when handling the concentrate or applying by hand-held equipment.

Wear suitable protective gloves when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
WASH HANDS AND EXPOSED SKIN before meals and after work.

TAKE OFF IMMEDIATELY all contaminated clothing.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

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

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).

Storage and Disposal

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

Keep away from food, drink and animal feedingstuffs.

Keep out of reach of children.

Wash out container thoroughly, empty washings into the spraytank, and dispose of safely.

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

PROTECT FROM FROST.



IMPORTANT INFORMATION FOR USE ONLY AS AN HORTICULTURAL FUNGICIDE

Crops:	Method of application:	Maximum individual dose:	Maximum total dose:	Latest time of application:
Protected lettuce (grown in organic media)	Drench	3 ml product/m ²	6 ml product/m ² /crop(1)	Pre-transplantation
Protected cucumber and protected tomato (grown in organic media)	Drench	3 ml product/m ²	6 ml product/m ² /crop(1)	Pre-transplantation
	AND			
	Drip irrigation	3 L product/ha	6 L product/ha/crop (2)	3 days before harvest
Protected cucumber and protected tomato (grown in synthetic rooting media)	Drench	3 ml product / m ²	6 ml product / m ² / crop(1)	Pre-transplantation
	AND			
	Drip irrigation	3 L product/ha	12 L product/ha/crop (3)	3 days before harvest
Qualified Minor Uses:				
Protected melon (grown in organic media)	Drench	6 ml product/m ²	9 ml product/m ² /crop(1)	Pre-transplantation
	AND			
	Drip irrigation	3 L product/ha	6 L product/ha/crop (2)	3 days before harvest
Protected melon (grown in synthetic rooting media)	Drench	6 ml product/m ²	9 ml product/m ² /crop(1)	Before transplanting
	AND			
	Drip irrigation	3 L product/ha	12 L product/ha/crop (3)	3 days before harvest
Other specific restrictions: (1) Where two drenches are allowed on one crop then the first drench is restricted to pre-emergence use only. (2) For use on cucumber (protected), tomato (protected) and melon (protected) in a soil or compost substrate the maximum total dose via drip irrigation must not exceed 6L/ha/crop. (3) For application by drip irrigation to tomato, melon and cucumber grown for cropping in artificial substrates Avatar must not be applied in a re-circulating system.				

**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.**



DIRECTIONS FOR USE

IMPORTANT: This leaflet is approved as part of the label. All instructions on this leaflet and on the label should be read carefully in order to obtain successful results from the use of this product.

WARNINGS

Use as a soil treatment may result in leaf scorch under very hot conditions.
Consult processor before using on crops grown for processing.

DISEASES CONTROLLED

Avatar contains propamocarb (530.0 g/L) and fosetyl (310.0 g/L), a combination of two active ingredients with proven efficacy at protecting the roots and aerial parts of broadleaved crops against Oomycete fungi. The combination has multi-site activity and as such is ideal to include in disease control programmes as part of an anti-resistance management strategy. Direct effects against fungi prevent mycelial growth/penetration and spore production/germination. These are supported by indirect effects which stimulate the plants natural defences (systemic acquired resistance). The following crop diseases are controlled:

<i>Pythium</i> spp. (damping-off)	Lettuce, tomato, melon†, cucumber.
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†Minor use qualification – Only limited evidence of crop safety is available

Additional benefits against other Oomycete fungi such as *Phytophthora* species can also be expected.

To ensure good control of Oomycete diseases, Avatar must be applied in a protectant programme of treatments, before infections have occurred.

CROP SPECIFIC INFORMATION

Protected lettuce:

For plants in propagation, Avatar may be applied as a seedbed drench at a maximum individual dose of 3 ml product/m² and a maximum total dose as a drench per crop of 6 ml product/m². The first application should be pre-emergence, just after sowing, followed by a second application after crop emergence, approximately 10-14 days later. Thoroughly drench the compost using a diluent volume of between 2 and 4 L/m² (20,000-40,000 l/ha). The latest time of application is pre-transplanting.

Protected tomato and cucumber:

Crops grown in soil or compost for propagation and cropping

For plants in propagation, Avatar may be applied as a seedbed drench at a maximum individual dose of 3 ml product/m² and a maximum total dose as a drench per crop of 6 ml product/m² for tomatoes and cucumbers. The first application is recommended pre-emergence, just after sowing, followed by a second application after crop emergence, approximately 10-14 days later. Thoroughly drench the compost using a diluent volume of between 2 and 4 L/m² (20,000-40,000 L/ha). The latest time of application is pre-transplanting.

After transplanting, Avatar may be applied via drip irrigation up to a maximum individual dose of 3.0 L/ha and a maximum total dose via drip irrigation per crop of 6.0 L/ha. One dose is recommended just after transplanting followed by a second dose approximately 10-14 days later using a diluent volume of between 300-1500 L/ha). At least 3 days must be allowed between the final application and harvest

Crops grown in artificial substrates for propagation and cropping

For plants in propagation, Avatar may be applied as a seedbed drench at a maximum individual dose of 3 ml product/m² and a maximum total dose as a drench per crop of 6 ml product/m² for tomatoes and cucumbers. The first application is recommended pre-emergence, just after sowing, followed by a second application after crop emergence, approximately 10-14 days later. Thoroughly drench the compost using a diluent volume of between 2 and 4 L/m² (20,000-40,000 l/ha). The latest time of application is pre-transplantation.

To reduce the risk of phytotoxicity (plant selectivity) in cucumbers grown on artificial substrates, use up to 1 litre of product per hectare in the first 10 days after transplanting. It is also recommended that applications to newly transplanted cucumbers are made in the afternoon/evening when plant uptake will be slower.

After transplanting, Avatar may be applied via drip irrigation up to a maximum individual dose of 3.0 L/ha and a maximum total dose via drip irrigation per crop of 12.0 L/ha. One dose is recommended just after transplanting followed by further doses at an interval of 7 to 10 days using a diluent volume of between 300-1500 L/ha). At least 3 days must be allowed between the final application and harvest.

MINOR USE QUALIFICATION

There is limited evidence of crop safety and/or product efficacy available for qualified minor uses and the commercial risk of using this product under this/these Qualified Minor Uses(s) is borne entirely by the grower.

Protected melon:

Crops grown in soil or compost for propagation and cropping

For plants in propagation, Avatar may be applied as a seedbed drench at a maximum individual dose of 6 ml product/m² and a maximum total dose as a drench per crop of 9 ml product/m². The first application is recommended pre-emergence, just after sowing, followed by a second application after crop emergence, approximately 10-14 days later. Thoroughly drench the compost using a diluent volume of between 2 and 4 L/m² (20,000-40,000 L/ha). The latest time of application is pre-transplanting.

After transplanting, Avatar may be applied via drip irrigation up to a maximum individual dose of 3.0 L/ha and a maximum total dose via drip irrigation per crop of 6.0 L/ha. One dose is recommended just after transplanting followed by a second dose approximately 10-14 days later using a diluent volume of between 300-1500 L/ha). At least 3 days must be allowed between the final application and harvest

Crops grown in artificial substrates for propagation and cropping

For plants in propagation, Avatar may be applied as a seedbed drench at a maximum individual dose of 6 ml product/m² and a maximum total dose as a drench per crop of 9 ml product/m². The first application is recommended pre-emergence, just after sowing, followed by a second application after crop emergence, approximately 10-14 days later. Thoroughly drench the compost using a diluent volume of between 2 and 4 L/m² (20,000-40,000 L/ha). The latest time of application is pre-transplantation.

After transplanting, Avatar may be applied via drip irrigation up to a maximum individual dose of 3.0 L/ha and a maximum total dose via drip irrigation per crop of 12.0 L/ha. One dose is recommended just after transplanting followed by further doses at an interval of 7 to 10 days using a diluent volume of between 300-1500 L/ha). At least 3 days must be allowed between the final application and harvest.

MIXING

Shake well before use

Ensure that the applicator is clean and set to give the correct volume of application and an even coverage. Half fill the applicator with water then add the recommended quantity of Avatar. Add the rest of the water and agitate the mixture thoroughly. The diluted product must be used IMMEDIATELY.

APPLICATION

Avatar may be applied as a seedbed drench or via drip irrigation. For rates, water volumes, timings and restrictions of application see crop specific information. Additional advice is as follows:

Seedbed drench: For best results when drenching, thoroughly saturate the growing medium. The growing medium should be moist before application.

Trickle Irrigation: When applying by trickle irrigation systems, Avatar should either be diluted in a bulk tank or through an injector type diluter.

All application equipment should be washed/cleaned with water or dilute detergent solution and thoroughly rinsed three times.

EXTENSION OF USE:

This extension of the authorised use provides for the use of 'Avatar' in respect of crops and situations other than those included on the product label (above). Neither the efficacy or the phytotoxicity of the product for which this Extension of authorisation has been granted have been assessed and, as such, the user bears the risk in respect of failures concerning its efficacy and phytotoxicity.

Crops/Situations:	Max individual dose:	Max total dose:	Latest time of application:
Protected and Outdoor ornamental plant production.	2.5 L product/ha	5 L product/ha	23 day pre-harvest, handling and sale interval. (See Advisory Information below)

This Extension of Authorisation (EAMU) relates to the use of 'Avatar' (M16608) as a fungicide for use as a foliar spray treatment for the control of downy mildew (*Peronospora spp.*), (*Bremia spp*) and (*Plasmopara spp*) on protected or outdoor ornamental plant production.

Apply Avatar at a maximum individual dose of 2.5 litres product/ha and a maximum total dose of 5 litres product/ha/crop. For application via hydraulic boom sprayer or hand-held equipment in a minimum water volume of 200 litres per hectare. A minimum interval of 7 days must be observed between applications.

Advisory Information:

23 days must elapse before harvest, handling or sale of plants treated in accordance with the terms of this EAMU. This refers to any activity carried out in the treated crop that involves extensive contact of workers with treated plants such as manual transplanting of ornamental bedding plants or hand harvest of plants. Any such manual harvesting or transplanting of plants must be avoided until 23 days after the last treatment of Avatar (M16608) is applied to the crop in line with the conditions of use specified on this notice.

The 23 day interval does not include activities which avoid direct contact with treated plants such as moving trays.

No handling of treated plants can be carried out between individual doses of Avatar, a 23 day interval still applies following only one treatment (as described above).

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Section 6 of the Health and Safety at Work Act

Additional Product Safety Information (This section does not form part of the approved product label). 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 "off-label" approval or is otherwise permitted. The information on this label is based on the best available information including data from test results.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AVATAR (EVE) SL840 12X1L BOT GB Version 7 / GB Revision Date: 26.06.2014 102000004473

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name AVATAR (EVE) SL840 12X1L BOT GB

Product code (UVP) 06396712, 81705194

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Fungicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Limited
230 Cambridge Science Park
Milton Road, Cambridge, Cambridgeshire CB4 0WB United Kingdom

Telephone +44(0)1223 226500

Telefax +44(0)1223 426240

Responsible Department Email: ukinfo@bayercropscience.com

1.4 Emergency telephone no.

Emergency telephone no. 0800-220876 (UK 24 hr)
+44(0)1635-563000 (Overseas 24 hr)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Skin sensitisation: Category 1
H317 May cause an allergic skin reaction.

Classification according to EU Directives 67/548/EEC or 1999/45/EC
R43

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

• Propamocarb • Fosetyl

Signal word: Warning



Hazard statements

H317 May cause an allergic skin reaction.

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

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as nonhazardous waste.

2.3 Other hazards No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures Chemical nature Soluble concentrate (SL) Propamocarb/Fosetyl 530:310 g/l

Hazardous components

R-phrases(s) according to EC directive 67/548/EEC. Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Propamocarb	24579-73-5 607-406-2	Xi; R43	Skin Sens. 1, H317	47.32
Fosetyl	15845-66-6	Xi; R41	Eye Dam. 1, H318	27.68

Further information For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice Move out of dangerous area. Remove contaminated clothing immediately and dispose of safely.
Inhalation Move the victim to fresh air and keep at rest. If symptoms persist, call a physician.
Skin contact Wash off with soap and water. If symptoms persist, call a physician.
Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If eye irritation or redness persists, see an ophthalmologist.
Ingestion Do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms The following symptoms may occur:; Lethargy, Ataxia, Spasm, Local:; Sensitising effects

4.3 Indication of any immediate medical attention and special treatment needed

Risks This product, although being a carbamate, is NOT a cholinesterase inhibitor.
Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.
Contraindication: atropine. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable High volume water jet

5.2 Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire.

5.3 Advice for firefighters

Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus.

Further information

Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Use personal protective equipment. Avoid contact with spilled product or contaminated surfaces.

6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

Additional advice Check also for any local site procedures.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation.

Advice on protection against fire and explosion

No special precautions required.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Shower or bathe at the end of working. Remove soiled clothing immediately and clean thoroughly before using again.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Protect from freezing. Keep away from direct sunlight.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

Suitable materials HDPE (high density polyethylene)

7.3 Specific end uses Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Propamocarb	24579-73-5	1.1 mg/m3 (TWA)		OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

8.2 Exposure controls

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Personal protective equipment In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection Respiratory protection is not required under anticipated circumstances of exposure. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm).

Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection Wear standard coveralls and Category 3 Type 4 suit. If there is a risk of significant exposure, consider a higher protective type suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Liquid	Colour	colourless to light yellow
Odour	odourless	pH	6,0 - 7,5 at 100 % (23 °C)
Flash point	> 120 °C at 1,013 hPa	Ignition temperature	300 °C
Density	ca. 1,12 g/cm³ at 20 °C	Water solubility	completely miscible
Partition coefficient: octanol/water	Propamocarb: log Pow: 0.84. Fosetyl: log Pow: -0.70		
Viscosity, kinematic	36,9 mm²/s at 40 °C		
Surface tension	59 mN/m at 20 °C. Determined as a 1% solution in distilled water.		
Explosivity	Not explosive		
9.2 Other information	Further safety related physical-chemical data are not known.		

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous decomposition products No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 (rat) > 2,000 mg/kg **Acute dermal toxicity** LD50 (rat) > 2,000 mg/kg

Skin irritation No skin irritation (rabbit) **Eye irritation** No eye irritation (rabbit)

Sensitisation Sensitising (mouse). OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment repeated dose toxicity Propamocarb did not cause specific target organ toxicity in experimental animal studies. Fosetyl Aluminium did not cause specific target organ toxicity in experimental animal studies.

Assessment Mutagenicity Propamocarb was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Fosetyl Aluminium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity Propamocarb was not carcinogenic in lifetime feeding studies in rats and mice.

Fosetyl Aluminium was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction Propamocarb did not cause reproductive toxicity in a two-generation study in rats. Fosetyl Aluminium did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity Propamocarb caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Propamocarb are related to maternal toxicity. Fosetyl Aluminium did not cause developmental toxicity in rats and rabbits.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Rainbow trout (*Oncorhynchus mykiss*)) > 98 mg/l. Exposure time: 96 h

Toxicity to aquatic invertebrates EC50 (Water flea (*Daphnia magna*)) > 97 mg/l. Exposure time: 48 h

Toxicity to aquatic plants EC50 (*Pseudokirchneriella subcapitata*) > 97 mg/l. Exposure time: 72 h

12.2 Persistence and degradability

Biodegradability Propamocarb: rapidly biodegradable. Fosetyl Aluminium: rapidly biodegradable

Koc Propamocarb: Koc: 719. Fosetyl Aluminium: Koc: 0.1

12.3 Bioaccumulative potential

Bioaccumulation Propamocarb: Does not bioaccumulate. Fosetyl Aluminium: Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Propamocarb: Slightly mobile in soils. Fosetyl Aluminium: Highly mobile in soils

12.5 Results of PBT and vPvB assessment PBT and vPvB assessment

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

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

12.6 Other adverse effects Additional ecological information No other effects to be mentioned.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Contaminated packaging Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times. Add washings to sprayer at time of filling. Dispose of empty and cleaned packaging safely. Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier. Follow advice on product label and/or leaflet.

Waste key for the unused product 020108 agrochemical waste containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

According to ADN/ADR/UK 'Carriage' Regulations/RID/IMDG/IATA not classified as dangerous goods.

No transport in bulk according to the IBC Code. This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

14.1 – 14.5 Not applicable.

14.6 Special precautions for user See sections 6 to 8 of this Safety Data Sheet.

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

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK and Northern Ireland Regulatory References

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

Waste Treatment

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

Further information WHO-classification: III (Slightly hazardous)

15.2 Chemical Safety Assessment A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

Text of the hazard statements mentioned in Section 3

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

The above information is intended to give general health and safety guidance on the storage and transport of the product. It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 453/2010.

Avatar[®]

1L e

A systemic multi-site fungicide for the control of 'damping-off' caused by *Pythium* spp for lettuce, tomato, melon and cucumber seedlings during propagation under protection.
Also, for protected crops of tomato, melon and cucumber against *Pythium* when applied through drip irrigation.

MAPP 16608

A soluble concentrate containing propamocarb (530.0 g/L) and fosetyl (310.0 g/L)

Marketing Company:

Everris Ltd, Epsilon House
West Rd, Ipswich, IP3 9FT
Telephone: 01473 237100

**For 24 hour emergency information
contact Everris Ltd: 01865 407333**

Approval Holder:

Bayer CropScience Ltd
230 Cambridge Science Park
Milton Road
Cambridge CB4 0WB



GB84405183a rA2b



Safety Information

Avatar

Contains 530.0 g/L (47.32%)
propamocarb and 310.0 g/L (27.68%)
fosetyl



Warning

May cause an allergic skin reaction

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

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

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

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

SAFETY PRECAUTIONS

Operator Protection

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

Wear suitable protective clothing (coveralls) and suitable protective gloves when handling the concentrate or applying by hand-held equipment.

Wear suitable protective gloves when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
WASH HANDS AND EXPOSED SKIN before meals and after work.

TAKE OFF IMMEDIATELY all contaminated clothing.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

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

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).

Storage and Disposal

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

Keep away from food, drink and animal feedingstuffs.

Keep out of reach of children.

Wash out container thoroughly, empty washings into the spraytank, and dispose of safely.

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

PROTECT FROM FROST.

