According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
6.1	28.09.2024	9374458-00009	Date of first issue: 27.08.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Abamectin Formulation
1.2	Relevant identified uses of th Use of the Sub-	e s	ubstance or mixture and uses advised against Veterinary product
	stance/Mixture	•	
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 4 Specific target organ toxicity - repeated exposure, Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1

H332: Harmful if inhaled. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)





Abamectin Formulation

Version 6.1	Revision Date: 28.09.2024	-	SDS Number: 9374458-0000	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021
Hazai	rd pictograms	:		
Signa	l word	:	Warning	v v
Hazaı	rd statements	:	H332 H373 H410	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Preca	utionary statements	:	Prevention P271 P273	Use only outdoors or in a well-ventilated area. Avoid release to the environment.
			Response: P304 + P34 P314 P391	0 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. Get medical advice/ attention if you feel unwell. Collect spillage.

Hazardous components which must be listed on the label:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO)

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
abamectin (combination of avermec-	71751-41-2	Acute Tox. 2; H300	>= 1 - < 2.5
tin B1a and avermectin B1b) (ISO)		Acute Tox. 1; H330	
	606-143-00-0	Acute Tox. 3; H311	
		Repr. 2; H361fd	
		STOT RE 1; H372	
		(Central nervous	
		system)	
		Aquatic Acute 1;	
		H400	
		Aquatic Chronic 1;	
		H410	



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Abamectin Formulation

Version 6.1	Revision Date: 28.09.2024	SDS Number: 9374458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021	
			M-Factor (Acute aquatic toxicity): 10,000 M-Factor (Chronic aquatic toxicity): 10,000 specific concentra- tion limit STOT RE 1; H372 >= 5 % STOT RE 2; H373 0.5 - < 5 %	
2,6-D	i-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; >= 0.25 H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	- < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version 6.1	Revision Date: 28.09.2024		S Number: 74458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021
			Get medical atte	ntion if irritation develops and persists.
If sw	allowed	:	Get medical atte	
			Rinse mouth tho	roughly with water.
4.2 Most	important symptoms ar	nd e		-
Risks	3	:	Harmful if inhale May cause dama exposure.	d. age to organs through prolonged or repeated
4.3 Indica	ation of any immediate	mec	lical attention an	d special treatment needed
Treat	tment	:	Treat symptoma	tically and supportively.
SECTIO	N 5: Firefighting meas	sure	es	
5.1 Exting	guishing media			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical	
Unsu medi	iitable extinguishing a	:	None known.	
5.2 Speci	al hazards arising from	the	substance or m	ixture
Spec fighti	ific hazards during fire- ng	:	Exposure to com	bustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides	
5.3 Advic	e for firefighters			
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. otective equipment.
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to de

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment.
		Follow safe handling advice (see section 7) and personal pro-

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version 6.1	Revision Date: 28.09.2024	SDS Number: 9374458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021				
		tective equipm	nent recommendations (see section 8).				
6.2 Enviro	nmental precautions						
 Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060). 							
6.3 Method	ds and material for co	ontainment and clea	aning up				
Metho	ds for cleaning up	For large spills ment to keep in be pumped, st Clean up rema bent. Local or nation posal of this m employed in th mine which re Sections 13 an	nert absorbent material. s, provide dyking or other appropriate contain- material from spreading. If dyked material can core recovered material in appropriate container. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.				

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	0	
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not breathe mist or vapours. Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment
		Keep container tightly closed.
		Do not eat, drink or smoke when using this product.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami-

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version 6.1	Revision Date: 28.09.2024	SDS Number: 9374458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021						
		engineering co appropriate de industrial hygie	before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.						
7.2 Cond	7.2 Conditions for safe storage, including any incompatibilities								
•	uirements for storage s and containers	Keep in a cool	ly labelled containers. Keep tightly closed. well-ventilated place. Store in accordance with national regulations.						
Advi	ce on common storage	Strong oxidizin	ubstances and mixtures						
-	i fic end use(s) cific use(s)	: No data availal	ble						

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
abamectin (combi- nation of avermec- tin B1a and aver- mectin B1b) (ISO)	71751-41-2	TWA	15 μg/m3 (OEB 3)	Internal
		Wipe limit	150 μg/100 cm²	Internal
2,6-Di-tert-butyl-p- cresol	128-37-0	TWA	10 mg/m3	GB EH40

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
2,6-Di-tert-butyl-p- cresol	Workers	Inhalation	Long-term systemic effects	3.5 mg/m3
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.86 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.25 mg/kg bw/day

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
6.1	28.09.2024	9374458-00009	Date of first issue: 27.08.2021

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
2,6-Di-tert-butyl-p-cresol	Fresh water	0.199 µg/l
	Intermittent use/release	0.02 µg/l
	Marine water	0.02 µg/l
	Sewage treatment plant	0.17 mg/l
	Fresh water sediment	0.0996 mg/kg dry weight (d.w.)
	Marine sediment	0.00996 mg/kg dry weight (d.w.)
	Soil	0.04769 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	8.33 mg/kg food

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 143 Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Vers 6.1	sion	Revision Date: 28.09.2024		S Number: 4458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021
	Appear Colour Odour Odour	ance Threshold	: : : :	liquid light yellow characteristic No data available	
	рН		:	No data available	
	Melting	point/freezing point	:	No data available	
		oiling point and boiling	:	265 °C	
	range Flash p	point	:	213.2 °C	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	0.90 - 0.91	
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Partitio	er solubility n coefficient: n-	:	No data available Not applicable	
	octanol Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance or	mixture is not classified as oxidizing.
9.2	Other ir	formation			
	Flamma	ability (liquids)	:	No data available	
	Molecu	lar weight	:	No data available	
	Particle	e size	:	Not applicable	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
6.1	28.09.2024	9374458-00009	Date of first issue: 27.08.2021

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

own.
IC

10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
--------------------	--------------------

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

3		
Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if inhaled.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 2.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISC			
Acute oral toxicity	:	LD50 (Rat): 24 mg/kg	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



rsion I	Revision Date: 28.09.2024	SDS Number: 9374458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021		
		LD50 (Mous	a): 10 mg/kg		
			<i>5)</i> . To hig/kg		
			ey): 24 mg/kg Dilatation of the pupil		
Acute	inhalation toxicity	Exposure tim	: LC50 (Rat): 0.023 mg/l Exposure time: 4 h Test atmosphere: dust/mist		
Acute	dermal toxicity	: LD50 (Rat): 3	330 mg/kg		
		LD50 (Rabbi	t): 2,000 mg/kg		
2,6-Di	-tert-butyl-p-cresol:				
Acute	oral toxicity	: LD50 (Rat): : Method: OE0	> 6,000 mg/kg CD Test Guideline 401		
Acute dermal toxicity		Method: OE	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity 		
Not cl	corrosion/irritation assified based on ava ponents:				
	•		and avermectin B1b) (ISO):		
Specie Resul		: Rabbit : No skin irrita	tion		
2,6-Di	-tert-butyl-p-cresol:				
Specie	es	: Rabbit			
Metho			Guideline 404		
Resul ⁻ Rema		: No skin irrita : Based on da	tion ta from similar materials		
Serio	us eye damage/eye i	rritation			
	assified based on ava				
<u>Comp</u>	oonents:				
abam	ectin (combination o	of avermectin B1a	and avermectin B1b) (ISO):		
Specie Resul		: Rabbit : Mild eye irrita	ation		
			-		
	-tert-butyl-p-cresol:	_			
Specie Metho		: Rabbit : OECD Test (Guideline 405		
		10 /			

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version 6.1	Revision Date: 28.09.2024	SDS Number: 9374458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021
Resu Rema		: No eye irritati : Based on data	on a from similar materials
Resp	iratory or skin sensit	isation	
•••••	sensitisation lassified based on avai	ilable information.	
Respiratory sensitisation Not classified based on avail		ilable information.	
Components:			
abamectin (combination o		f avermectin B1a a	nd avermectin B1b) (ISO):
Test Expo Resu	sure routes	: Maximisation : Skin contact : Not a skin ser	
2,6-D	i-tert-butyl-p-cresol:		
Test Expo Spec Resu	sure routes ies	: Human repea : Skin contact : Humans : negative	t insult patch test (HRIPT)

Germ cell mutagenicity

Not classified based on available information.

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):			
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative		
	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative		
	Test Type: Alkaline elution assay Result: negative		
Genotoxicity in vivo :	Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Intraperitoneal injection Result: negative		
2,6-Di-tert-butyl-p-cresol:			
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative		
	Test Type: In vitro mammalian cell gene mutation test		

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Result: negativeGenotoxicity in vivoTest Type: Autagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Bypecies: Rat Application Route: Ingestion Result: negativeMot classified based on available information.Demoorns:abameetin (combination of avermeetin B1a and avermeetin B1b) (ISO): Species: Rat Result: negativeSpecies: Rat Application Route:Species: Rat Result:Proponents:barneetin (combination of avermeetin B1a and avermeetin B1b) (ISO):Species: Rat Result:Species: Rat Result:<	Version 6.1	Revision Date: 28.09.2024	SDS Numbo 9374458-00	
Result: negative Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow Cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Route: Ingestive Species: Rat Application Route: Oral Species: Ingestive Species: Mouse Application Route: Oral Species: Ingestive Species: Ingestive Species: Ingestive Species: Ingestive Species: Ingestive Species: Ingestion Result:			Result:	negative
cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative Carcinogenicity Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Species : Rat Application Route : Oral Exposure time : 105 weeks Result : negative Species : Mouse Application Route : 93 weeks Result : negative Species : Rat Application Route : 93 weeks Result : negative Carcinogenicity : Note Species : Rat Application Route : 105 weeks Result : negative Application Route : 293 weeks Result : negative Carcinogenicity : Note Species : Rat Application Route : 109 weeks Result : negative Species : Rat Application Route : 22 Months Result : negative Molection for avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat male Application Route: Oral Result : Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result : Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result : Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result : Effects Development: NOAEL: 0.12 mg/kg body Weight				
Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Species : Rat Application Route : Oral Exposure time : 105 weeks Result : negative Species : Mouse Application Route : Oral Exposure time : 93 weeks Result : negative 2.6-Di-tert-butyl-p-cresol: Species : Rat Application Route : Liggestion Exposure time : 22 Months Result : negative Mouse Result : regative Result : regative Mouse Application Route : Liggestion Exposure time : 22 Months Result : regative Mouse Application Route : Liggestion Exposure time : 22 Months Result : regative Result : regative Mouse Application Route : Cral Bamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects on fertility Result: Fertors real Result: Fertors real Result: Fertors real	Ge	notoxicity in vivo	cytogen Species Applicat	etic test, chromosomal analysis) Rat on Route: Ingestion
Semponents: species Rati Application Route Oral Exposure time Oral Species Mouse Application Route Oral Species Base Species Pole Species Base Application Route Oral Exposure time Oral Exposure time Polative Species Rati Application Route Toral Exposure time Sate Species Rati Application Route Ingestion Exposure time 22 Months Result negative Mouse Application Route Stassified based on available information. Components: Material Combination of avermectin B1a and avermectin B1b) (ISO) Effects on fertility Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Res	Ca	rcinogenicity		
Abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Species : Rat Application Route : Oral Exposure time : Species : Mouse Application Route : Species : Mouse Application Route : Species : Result : negative Result :	No	t classified based on availa	able informati	on.
Species : Rat Application Route : Oral Exposure time : 105 weeks Result : negative Species : Mouse Application Route : Oral Exposure time : 93 weeks Result : negative 2,6-Di-tert-butyl-p-cresol: Species : Rat Application Route : Ingestion Exposure time : 22 Months Result : negative Reproductive toxicity Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat male Application Route: Oral Result: Effects on fertility Species: Rat male Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	<u>Co</u>	mponents:		
Application Route : Oral Exposure time : 105 weeks Result : negative Species : Mouse Application Route : Oral Exposure time : 93 weeks Result : negative 2,6-Di-tert-butyl-p-cresol: : Species : Rat Application Route : Ingestion Exposure time : 22 Months Result : negative Reproductive toxicity : negative Not classified based on available information. : Components: : abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Reryle Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	aba	amectin (combination of	avermectin I	B1a and avermectin B1b) (ISO):
Exposure time:105 weeks negativeResult:negativeSpecies:MouseApplication Route:OralExposure time:93 weeksResult:negative2,6-Di-tert-butyl-p-cresol:Species:RatApplication Route:IngestionExposure time:22 MonthsResult:negativeReproductive toxicityNot classified based on available information.Components:abamectin (combination of avermectin B1a and avermectin B1b) (ISO):Effects on fertilitySpecies: Rat, male Application Route: Oral Result: Effects on fertilityDescription:Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity				
Result:negativeSpecies:MouseApplication Route:OralExposure time:93 weeksResult:negative 2,6-Di-tert-butyl-p-cresol: Species:RatApplication Route:IngestionExposure time:22 MonthsResult:negative Reproductive toxicity Not classified based on available information. Components:abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility:Test Type: FertilitySpecies: Rat Application Route: Oral Result: Effects on fertilityTest Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity		•		
Species : Mouse Application Route : Oral Exposure time : 93 weeks Result : negative 2,6-Di-tert-butyl-p-cresol: Species : Rat Application Route : Ingestion Exposure time : 22 Months Result : negative Reproductive toxicity Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body Weight Result: Fetotoxicity				
Application Route:OralExposure time:93 weeksResult:negative2,6-Di-tert-butyl-p-cresol:Species:RatApplication Route:IngestionExposure time:22 MonthsResult:negativeReproductive toxicityNot classified based on available information.Components:abamectin (combination of avermectin B1a and avermectin B1b) (ISO):Effects on fertility:Test Type: FertilitySpecies: Rat, male Application Route: Oral Result: Effects on fertilityTest Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects on fertilityTest Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	Re	Suit	. negative	
Exposure time : 93 weeks Result : negative 2,6-Di-tert-butyl-p-cresol: Species : Rat Application Route : Ingestion Exposure time : 22 Months Result : negative Reproductive toxicity Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity			: Mouse	
Result : negative 2,6-Di-tert-butyl-p-cresol: Species : Rat Application Route : Ingestion Exposure time : 22 Months Result : negative Reproductive toxicity Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Rary Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity				
Jobson Jobson Species : Rat Application Route : Ingestion Exposure time : 22 Months Result : negative Reproductive toxicity . Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects on fertility Result: Effects Oral Result: Effects on fertility Result: Effects on fertility		-		
Species:RatApplication Route:IngestionExposure time:22 MonthsResult:negativeReproductive toxicityNot classified based on available information.Components:abamectin (combination of avermectin B1a and avermectin B1b) (ISO):Effects on fertility:Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertilityTest Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	Re	Sult	: negative	
Species:RatApplication Route:IngestionExposure time:22 MonthsResult:negativeReproductive toxicityNot classified based on available information.Components:abamectin (combination of avermectin B1a and avermectin B1b) (ISO):Effects on fertility:Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertilityTest Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	2,6	-Di-tert-butyl-p-cresol:		
Application Route:IngestionExposure time:22 MonthsResult:negativeReproductive toxicityNot classified based on available information.Components:abamectin (combination of avermectin B1a and avermectin B1b) (ISO):Effects on fertilitySpecies: Rat, maleApplication Route: OralResult: Effects on fertilityTest Type: Two-generation reproduction toxicity studySpecies: RatApplication Route: OralResult: Effects on fertilityTest Type: Two-generation reproduction toxicity studySpecies: RatApplication Route: OralEarly Embryonic Development: NOAEL: 0.12 mg/kg bodyweightResult: Fetotoxicity			: Rat	
Result : negative Reproductive toxicity . Not classified based on available information. . Components: . abamectin (combination of avermectin B1a and avermectin B1b) (ISO): . Effects on fertility : Test Type: Fertility Species: Rat, male . Application Route: Oral . Result: Effects on fertility . Test Type: Two-generation reproduction toxicity study Species: Rat . Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body: weight . Result: Fetotoxicity			: Ingestio	1
Reproductive toxicity Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity		-		
Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	Re	sult	: negative	
Not classified based on available information. Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	Po	productive toxicity		
Components: abamectin (combination of avermectin B1a and avermectin B1b) (ISO): Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity		• •	able informati	מנ
abamectin (combination of avermectin B1a and avermectin B1b) (ISO):Effects on fertility: Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertilityTest Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	-			
Effects on fertility : Test Type: Fertility Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity				
Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity		•		
Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity	Eff	ects on fertility		
Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity				
Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity				
Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity				
Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity				
Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity				
weight Result: Fetotoxicity				
Result: Fetotoxicity				
Effects on foetal develop- : Test Type: Embryo-foetal development				Fetotoxicity
	Fff	ects on foetal develop-	· Test Tv	e: Embryo-foetal development

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



oxicity - As-	/ (C F F F F S / C F S F F S S S S S S S S S S S S S	Developmental T Result: Cleft pala Remarks: Advers Fest Type: Embry Species: Rabbit Application Route Developmental T Result: Cleft pala survival Remarks: Advers Fest Type: Devel Species: Rat Application Route Developmental T Result: Teratoget	Maternal: NOAEL: 0.05 mg/kg body weigh foxicity: NOAEL: 0.2 mg/kg body weight the se developmental effects were observed yo-foetal development e: Oral foxicity: LOAEL: 2 mg/kg body weight the, Teratogenic effects, Reduced embryon se developmental effects were observed lopment e: Oral foxicity: LOAEL: 1.6 mg/kg body weight
oxicity - As-	S 4 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Species: Rabbit Application Route Developmental T Result: Cleft pala survival Remarks: Advers Fest Type: Devel Species: Rat Application Route Developmental T Result: Teratoger	e: Oral oxicity: LOAEL: 2 mg/kg body weight ite, Teratogenic effects, Reduced embryon se developmental effects were observed lopment e: Oral oxicity: LOAEL: 1.6 mg/kg body weight
oxicity - As-	S 4 E F : S	Species: Rat Application Route Developmental T Result: Teratoge	e: Oral oxicity: LOAEL: 1.6 mg/kg body weight
oxicity - As-			
	a	ertility, based on	of adverse effects on sexual function and animal experiments., Some evidence of on development, based on animal experi-
yl-p-cresol:			
ity	S A	Species: Rat Application Route	generation reproduction toxicity study e: Ingestion
al develop-	S	Species: Rat Application Route	yo-foetal development e: Ingestion
exposure based on availa	able in	formation.	
ed exposure	a. 41a		
nage to organs	s throu	ign proionged or	repeated exposure.
	exposure based on avail ed exposure	Al develop- : exposure based on available in ed exposure	Result: negative al develop- Species: Rat Application Route Result: negative exposure based on available information.

Exposure routes Target Organs	Ingestion Central nervous system
Assessment	Causes damage to organs through prolonged or repeated exposure.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

rsion I	Revision Date: 28.09.2024	SDS Number 9374458-000	
2,6-D	i-tert-butyl-p-cresol	:	
	ssment	: No signific	cant health effects observed in animals at concen 00 mg/kg bw or less.
Repe	ated dose toxicity		
Comp	oonents:		
abam	ectin (combination	of avermectin B1	a and avermectin B1b) (ISO):
Speci	es	: Rat	
NOAE	EL	: 1.5 mg/kg	
	cation Route	: Oral	
	sure time	: 24 Months	
	et Organs		ervous system
Symp	toms	: Tremors,	ataxia
Speci		: Mouse	
NOAE		: 4.0 mg/kg	
	cation Route	: Oral	
	sure time	: 24 Months	
	et Organs		ervous system
Symp	toms	: Tremors,	ataxia
Speci		: Dog	
NOAE		: 0.25 mg/k	
LOAE		: 0.5 mg/kg]
	cation Route	: Oral	
	sure time	: 53 Weeks	
	t Organs		ervous system
Symp			weight loss
Rema	Irks	: mortality of	observed
Speci		: Monkey	
NOAE		: 1.0 mg/kg	
	cation Route	: Oral	
	sure time	: 14 Weeks	
Targe	et Organs	: Central ne	ervous system
2,6-D	i-tert-butyl-p-cresol	:	
Speci		: Rat	
NOAE		: 25 mg/kg	
	cation Route	: Ingestion	
	sure time	: 22 Months	6
۵enir	ation toxicity		
Aspir	ation toxicity		

Not classified based on available information.

Experience with human exposure

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Version 6.1	Revision Date: 28.09.2024		DS Number:Date of last issue: 06.07.2024074458-00009Date of first issue: 27.08.2021				
Inges	Ingestion		: Symptoms: May cause, Tremors, Diarrhoea, central nervous system effects, Salivation, tearing				
SECTIO	N 12: Ecological infor	rma	ition				
2.1 Toxi	city						
-	ponents:						
aban	nectin (combination of	ave	rmectin B1a and avermectin B1b) (ISO):				
Toxic	city to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2 µg/l Exposure time: 96 h				
			LC50 (Lepomis macrochirus (Bluegill sunfish)): 9.6 µg/l Exposure time: 96 h				
			LC50 (Ictalurus punctatus (channel catfish)): 24 µg/l Exposure time: 96 h				
			LC50 (Cyprinus carpio (Carp)): 42 μg/l Exposure time: 96 h				
			LC50 (Cyprinodon variegatus (sheepshead minnow)): 15 µg Exposure time: 96 h				
	city to daphnia and other tic invertebrates	:	EC50 (Americamysis): 0.022 μg/l Exposure time: 96 h				
			EC50 (Daphnia magna (Water flea)): 0.34 μg/l Exposure time: 48 h				
Toxic plant	city to algae/aquatic s	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h				
M-Fa icity)	ctor (Acute aquatic tox-	:	10,000				
Toxic	city to microorganisms	:	EC50 : > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition				
Toxic icity)	city to fish (Chronic tox-	:	NOEC: 0.52 μg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow)				
	city to daphnia and other tic invertebrates (Chron- cicity)		NOEC: 0.03 μg/l Exposure time: 21 d Species: Daphnia magna (Water flea)				
			NOEC: 0.0035 µg/l Exposure time: 28 d Species: Mysidopsis bahia (opossum shrimp)				

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Vers 6.1	ion	Revision Date: 28.09.2024		9S Number: 74458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021	
				40.000		
	M-Fact toxicity	or (Chronic aquatic)	:	10,000		
	2,6-Di-	tert-butyl-p-cresol:				
	Toxicity to fish		:	 LC50 (Danio rerio (zebra fish)): > 0.57 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1. 		
		y to daphnia and other invertebrates				
	Toxicity plants	y to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
	M-Fact icity)	or (Acute aquatic tox-	:	1		
	Toxicity	y to microorganisms	:	EC50 : > 10,000 r Exposure time: 3 Method: OECD Te	h	
	Toxicity icity)	y to fish (Chronic tox-	 NOEC: 0.053 mg/l Exposure time: 30 d Species: Oryzias latipes (Japanese med Method: OECD Test Guideline 210) d latipes (Japanese medaka)	
		y to daphnia and other invertebrates (Chron- ity)	:	NOEC: 0.316 mg/ Exposure time: 21 Species: Daphnia		
	M-Fact toxicity	or (Chronic aquatic)	:	1		
12.2	Persis	tence and degradabil	ity			
	Compo	onents:				
		ectin (combination of a y in water	ave :	r mectin B1a and a Hydrolysis: 50 %(avermectin B1b) (ISO): < 12 h)	
		tert-butyl-p-cresol: radability	:	Result: Not readily Biodegradation: 4 Exposure time: 28	4.5 %	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Revision Date: 28.09.2024		DS Number: 74458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021
		Method: OECD	Test Guideline 301C
cumulative potential			
oonents:			
ectin (combination of	ave	rmectin B1a and	l avermectin B1b) (ISO):
cumulation	:	Bioconcentratio	n factor (BCF): 52
	:	log Pow: 4	
i-tert-butyl-p-cresol:			
cumulation	:		us carpio (Carp) n factor (BCF): 330 - 1,800
	:	log Pow: 5.1	
lity in soil			
oonents:			
ectin (combination of	ave	rmectin B1a and	l avermectin B1b) (ISO):
	:	log Koc: > 3.6	
Its of PBT and vPvB a	isse	ssment	
<u>uct:</u>			
sment	:	to be either pers	mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
r adverse effects			
<u>uct:</u>			
crine disrupting poten-	:	ered to have en	mixture does not contain components consid- docrine disrupting properties for environment REACH Article 57(f).
	28.09.2024 ccumulative potential ponents: ectin (combination of cumulation on coefficient: n- ol/water i-tert-butyl-p-cresol: cumulation on coefficient: n- ol/water lity in soil ponents: ectin (combination of pution among environ- al compartments	28.09.2024 93 ccumulative potential Donents: ectin (combination of ave Cumulation cumulation : on coefficient: n- : oh/water : i-tert-butyl-p-cresol: : cumulation : on coefficient: n- : oh/water : ity in soil : bonents: : ectin (combination of ave : oution among environ- : al compartments : Its of PBT and vPvB asses : uct: : r adverse effects :	28.09.2024 9374458-00009 Method: OECD ccumulative potential ponents: ectin (combination of avermectin B1a and cumulation : Bioconcentration on coefficient: n- : log Pow: 4 ol/water i-tert-butyl-p-cresol: cumulation : Species: Cyprin Bioconcentration on coefficient: n- : log Pow: 5.1 ol/water lity in soil ponents: ectin (combination of avermectin B1a and botton among environ- : log Koc: > 3.6 al compartments lts of PBT and vPvB assessment JCt: ssment : This substance/ to be either pers very persistent a 0.1% or higher. r adverse effects Jct: crine disrupting poten- : This substance/ ered to have en

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	: Empty containers should be taken to an approved waste han-

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Version 6.1	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.07.20249374458-00009Date of first issue: 27.08.2021					
		dling site for recycling or disposal. If not otherwise specified: Dispose of as unused produc	ct.				
SECTION	SECTION 14: Transport information						
14.1 UN n	umber						
ADN		: UN 3082					
ADR		: UN 3082					
RID		: UN 3082					
IMDG	ì	: UN 3082					
ΙΑΤΑ		: UN 3082					
14.2 UN p	roper shipping name						
ADN		: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIC N.O.S.	QUID,				
		(abamectin (combination of avermectin B1a and averme B1b) (ISO), 2,6-Di-tert-butyl-p-cresol)	ectin				
ADR		: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIC N.O.S.	QUID,				
		(abamectin (combination of avermectin B1a and averme B1b) (ISO), 2,6-Di-tert-butyl-p-cresol)	ectin				
RID		: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIC N.O.S.	QUID,				
		(abamectin (combination of avermectin B1a and averm B1b) (ISO), 2,6-Di-tert-butyl-p-cresol)	ectin				
IMDG	ì	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIC	QUID,				
		N.O.S. (abamectin (combination of avermectin B1a and averme B1b) (ISO), 2,6-Di-tert-butyl-p-cresol)	ectin				
ΙΑΤΑ		 Environmentally hazardous substance, liquid, n.o.s. (abamectin (combination of avermectin B1a and avermectir B1b) (ISO), 2,6-Di-tert-butyl-p-cresol) 					
14.3 Trans	sport hazard class(es						
		Class Subsidiary risks					
ADN		: 9					
ADR		: 9					
RID		: 9					
IMDG	ì	: 9					
ΙΑΤΑ		: 9					
14.4 Pack	ing group						
ADN							
	ng group	: 111					

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Vers 6.1	sion	Revision Date: 28.09.2024	-	9S Number: 74458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021
		cation Code Identification Number	:	M6 90 9	
	Hazard Labels	g group cation Code Identification Number restriction code	•	III M6 90 9 (-)	
		g group cation Code Identification Number	:	III M6 90 9	
	IMDG Packing Labels EmS Co		:	III 9 F-A, S-F	
	aircraft)	g instruction (cargo g instruction (LQ)	:	964 Y964 III Miscellaneous	
	Packing ger airc	g instruction (LQ)	:	964 Y964 III Miscellaneous	
14.5	5 Enviro	nmental hazards			
	ADN Environ	mentally hazardous	:	yes	
	ADR Environ	mentally hazardous	:	yes	
	RID Environ	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
	•	Passenger) Imentally hazardous	:	yes	
	IATA (0	-	:	yes	
14.6		l precautions for use	r		

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
6.1	28.09.2024	9374458-00009	Date of first issue: 27.08.2021

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)		:	Conditions of restr lowing entries sho Number on list 3	iction for the fol- uld be considered:
			Substance(s) or m here according to in the regulation, in use/purpose or the restriction. Please tions in correspond determine whether cable to the placin not.	their appearance respective of their e conditions of the refer to the condi- ding Regulation to
UK REACH Candidate list of sub concern (SVHC) for Authorisatio		:	Not applicable	
The Persistent Organic Pollutant Regulation (EU) 2019/1021 as a ain)	s Regulations (retained	:	Not applicable	
Regulation (EC) on substances t layer	hat deplete the ozone	:	Not applicable	
UK REACH List of substances subject to authorisation (Annex XIV)		:	Not applicable	
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation		:	Not applicable	
Control of Major Accident Hazards Regulations 2015 (COMAH)				
E1	ENVIRONMENTAL		Quantity 1 100 t	Quantity 2 200 t
	HAZARDS			

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories:

AICS : not determined

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Version 6.1	Revision Date: 28.09.2024	SDS Number: 9374458-00009	Date of last issue: 06.07.2024 Date of first issue: 27.08.2021		
DSL		: not determir	ned		
IECS	C	: not determir	ned		
	nical safety assessn		d out		
	al Safety Assessment				
Othe	r information		Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.		
Full 1 H300 H311 H330 H361)	: Fatal if inhal	tact with skin. ed.		
H301 H372 H400 H410	2	unborn child Causes dan exposure if Very toxic to	Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.		
	ext of other abbrevia	-	aquatic me with long lasting enects.		
Acute Aqua Aqua Repr STO GB E	e Tox. tic Acute tic Chronic T RE	: Acute toxicit : Short-term (: Long-term (: Reproductiv : Specific targ : UK. EH40 V	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Reproductive toxicity Specific target organ toxicity - repeated exposure UK. EH40 WEL - Workplace Exposure Limits Long-term exposure limit (8-hour TWA reference period)		
Wate Road ing o tion (of the Europ assoc cy So socia borat Trans rying	erways; ADR - Agree I; AIIC - Australian Inv f Materials; bw - Body EC) No 1272/2008; C e German Institute for pean Chemicals Ager ciated with x% respon chedule; ENCS - Exis ted with x% growth r ory Practice; IARC - sport Association; IBC Dangerous Chemical	ment concerning th entory of Industrial weight; CLP - Clas MR - Carcinogen, I Standardisation; D icy; EC-Number - E se; ELx - Loading r ing and New Cherr ate response; GHS international Agenc - International Cod s in Bulk; IC50 - Ha	ternational Carriage of Dangerous Goods by Inland the International Carriage of Dangerous Goods by Chemicals; ASTM - American Society for the Test solication Labelling Packaging Regulation; Regular Mutagen or Reproductive Toxicant; DIN - Standard SL - Domestic Substances List (Canada); ECHA uropean Community number; ECx - Concentration ate associated with x% response; EmS - Emergen- tical Substances (Japan); ErCx - Concentration as - Globally Harmonized System; GLP - Good La- y for Research on Cancer; IATA - International Ai e for the Construction and Equipment of Ships car- lf maximal inhibitory concentration; ICAO - Interna- ventory of Existing Chemical Substances in China		

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Abamectin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
6.1	28.09.2024	9374458-00009	Date of first issue: 27.08.2021

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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to : compile the Safety Data Sheet	Internal technical data, data from raw material SDSs, OEC eChem Portal search results and European Chemicals Age cy, http://echa.europa.eu/	
Classification of the mixture:	Classification procedure:	

in Attail of	olucomoulon procoulio.		
H332	Calculation method		
H373	Calculation method		
H400	Calculation method		
H410	Calculation method		
	H373 H400		

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN