

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2016/1179 Date of issue: 14-11-19 Version: 1.0

	ntification of the subst	ance/mixture and of the	company/undertaking		
1.1. Product iden			company/undertaking		
Product form		: Substance	: Substance		
Substance name		: Emamectin Benzoate tech.	min. 95%		
EC-No.		: 605-015-1			
CAS-No.		: 155569-91-8	: 155569-91-8		
Type of product		: Biocidal products (e.g. Disin	nfectants, pest control)		
1.2. Relevant ide	ntified uses of the substar	ce or mixture and uses ad	vised against		
1.2.1. Relevant ider	ntified uses				
Main use category		: Industrial use,Professional u	se		
Use of the substanc	e/mixture	: Insecticide Acaricide			
1.2.2. Uses advised	d against				
No additional inform	ation available.				
1.3. Details of the	e supplier of the safety dat	a sheet			
Simonis B.V.					
P.O. Box P.O. Box 6	520 m - The Netherlands				
	- F +31 314 344 167				
agrochem@simonis	bv.nl - http://www.simonisbv.nl/				
1.4. Emergency t	elephone number				
Emergency number : +31 314		+31 314 333 700 (Working Hou	rs Only)		
	Official advisory body	Address	Emergency number	Remark	
Country	Official auvisory body				

Classification according to Regulation (EC) No. 1272/2008 [CLP] with its amendment Regulation (EU) 2016/1179

Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 3	H311
Acute toxicity (inhalation:dust,mist) Category 3	H331
Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410
Full text of H statements : see section 16	

#### Adverse physicochemical, human health and environmental effects

Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] with its amendment Regulation (EU) 2016/1179

Hazard pictograms (CLP)



Signal word (CLP) Hazard statements (CLP)

- : Danger
- : H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
- H319 Causes serious eye irritation.
- H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)	: P261 - Avoid breathing dust.
	P264 - Wash hands thoroughly after handling.
	P273 - Avoid release to the environment.
	P280 - Wear protective clothing, protective gloves, eye protection, respiratory protection.
	P301+P310 - IF SWALLOWED: Immediately call a doctor.
	P391 - Collect spillage.
	P501 - Dispose of contents and container to an approved waste disposal plant.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

CAS-No. :	ngredients Emamectin Benzoate tech. min. 95% 155569-91-8 605-015-1		
Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP] with its amendment Regulation (EU) 2016/1179
Emamectin benzoate (Active substance (Biocide))	(CAS-No.) 155569-91-8 (EC-No.) 605-015-1	>= 90	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

#### Full text of H-phrases: see section 16

3.2. Mixtures Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Take medical advice.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Wash skin with plenty of water.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give a slurry of activated charcoal in water to drink. immediate medical advice.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects	: Pupil dilation, nose bleeding, tremors, convulsions.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Indication of any immediate media	cal attention and special treatment needed
Treat symptomatically.	

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ance or mixture
Fire hazard	: Presents no particular fire or explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon oxides (CO, CO2). Nitrogen oxides.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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	ECTION 6: Accidental release measures 1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid contact with skin, eyes and clothing. Avoid breathing dust.	
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions Avoid release to the environment.		
6.3. Methods and material for containment and cleaning up		
For containment	: Collect spillage.	
Methods for cleaning up	: Mechanically recover the product.	
Other information	: Dispose of materials or solid residues at an authorized site.	

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including a	ny incompatibilities
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container tightly closed. Store locked up.
Incompatible products	: Strong acids. Strong bases. Strong oxidation agent.
Heat and ignition sources	: Keep away from heat and direct sunlight.
7.3. Specific end use(s)	

No additional information available.

# SECTION 8: Exposure controls/personal protection

8.1. Control parameters

# No additional information available.

8.2. Exposure controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protective equipment:

protective clothing. Gloves. Safety glasses. Insufficient ventilation: wear respiratory protection.

### Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR), butyl rubber, Neoprene rubber (HNBR), Polyvinylchloride (PVC)	6 (> 480 minutes)	>0.11		EN 374
Eye protection:					
Safety glasses. Standard EN 166 - Personal eye-protection - specifications					
Skin and body p	protection:				
Wear suitable protective clothing. EN 340					
Respiratory protection:					
Wear respiratory	protection. EN 143				
Device	Filter type		Condition	Standa	ard
breathing appara	tus with filter Type P3		Dust protection	EN 143	3

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Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Crystalline powder.	
Colour	: white. Off-white.	
Odour	: Odourless.	
Odour threshold	: No data available.	
pH	: No data available.	
Relative evaporation rate (butylacetate=1)	: No data available.	
Melting point	: 141 - 146 °C	
Freezing point	: No data available.	
Boiling point	: No data available.	
Flash point	: > 100 °C	
Auto-ignition temperature	: No data available.	
Decomposition temperature	: No data available.	
Flammability (solid, gas)	: No data available.	
Vapour pressure	: No data available.	
Relative vapour density at 20 °C	: No data available.	
Relative density	: No data available.	
Density	: 0,6 g/cm <sup>3</sup>	
Solubility	: Water: 7 - 10 μg/l	
	Ethanol: 20 g/l	
	Acetone: 100 g/l	
Log Pow	: No data available.	
Viscosity, kinematic	: No data available.	
Viscosity, dynamic	: No data available.	
Explosive properties	: No data available.	
Oxidising properties	: No data available.	
Explosive limits	: Not applicable	
9.2. Other information		
No additional information available		

No additional information available.

SECTION 10: Stability and reactivity 10.1. Reactivity	
The product is non-reactive under normal conditions of use, storage and transport.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal conditions of use.	
10.4. Conditions to avoid	
None under recommended storage and handling conditions (see section 7).	
10.5. Incompatible materials	
Strong acids. Strong bases. Strong oxidation agent.	
10.6. Hazardous decomposition products	
Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

	SECTION IT. TOXICOlOgical information	
11.1. Information on toxicological effects		
	Acute toxicity (oral)	: Toxic if swallowed.
	Acute toxicity (dermal)	: Toxic in contact with skin.
	Acute toxicity (inhalation)	: Toxic if inhaled.

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ssified
serious eye irritation.
ssified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general :	Very toxic to aquatic life with long lasting effects.	
Hazardous to the aquatic environment, short-term : (acute)	Very toxic to aquatic life.	
Hazardous to the aquatic environment, long-term : (chronic)	Very toxic to aquatic life with long lasting effects.	
Emamectin benzoate (155569-91-8)		
LC50 fishes 1	0,003 mg/l (Oncorhynchus mykiss)	
LC50 fish 2	0,0096 mg/l (Lepomis macrochirus)	
12.2. Persistence and degradability		
No additional information available.		
12.3. Bioaccumulative potential		
No additional information available.		
12.4. Mobility in soil		
No additional information available.		
12.5. Results of PBT and vPvB assessment		
Emamectin Benzoate tech. min. 95% (155569-91-8)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria	a of REACH regulation, annex XIII	
12.6. Other adverse effects		

No additional information available.

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods	: Dis	pose of contents/container in	accordance with licensed colle	ector's sorting instructions.
SECTION 14: Transpo				
In accordance with ADR / RIE	) / IMDG / IATA / ADN			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN 2811	UN 2811	UN 2811	UN 2811	UN 2811
14.2. UN proper shippin	g name			
TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS : Emamectin benzoate)	TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS : Emamectin benzoate)	Toxic solid, organic, n.o.s. (CONTAINS : Emamectin benzoate)	TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS : Emamectin benzoate)	TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS : Emamectin benzoate)
Transport document descr	iption	<u>.</u>	·	
UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS : Emamectin benzoate), 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS : Emamectin benzoate), 6.1, II, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 2811 Toxic solid, organic, n.o.s. (CONTAINS : Emamectin benzoate), 6.1, II, ENVIRONMENTALLY HAZARDOUS	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS : Emamectin benzoate), 6.1, II, ENVIRONMENTALLY HAZARDOUS	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS : Emamectin benzoate), 6.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
6.1	6.1	6.1	6.1	6.1

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according to Regulation (EC) No. 1907	7/2006 (REACH) with its ame	ndment Regulation (EU) 2016/117	9	
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14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazard	ls			
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : Yes	environment : Yes Marine pollutant : Yes	environment : Yes	environment : Yes	environment : Yes
No supplementary information av	vailable.			
14.6. Special precautions fo	or user			
Overland transport				
Classification code (ADR)	: T2			
Special provisions (ADR)	: 274	4, 614		
Limited quantities (ADR)	: 500	)g		
Excepted quantities (ADR)	: E4			
Packing instructions (ADR)		02, IBC08		
Special packing provisions (ADR)				
Mixed packing provisions (ADR)	: MF	10		
Portable tank and bulk container i (ADR)		~		
Portable tank and bulk containers (ADR)	special provisions : TP	33		
Tank code (ADR)		AH, L4BH		
Tank special provisions (ADR)	: TU	15, TE19		
Vehicle for tank carriage	: AT			
Transport category (ADR)	: 2			
Special provisions for carriage - F Special provisions for carriage - L unloading and handling (ADR)	• • •	1 13, CV28		
Special provisions for carriage - C	Diversition (ADR) · S9	, S19		
Hazard identification number (Ker				
Orange plates		60 2811		
Tunnel restriction code (ADR) EAC code	: D/E : 2X			
Transport by sea				
Special provisions (IMDG)	: 274	1		
Packing instructions (IMDG)	: P0	02		
IBC packing instructions (IMDG)	: IBC	208		
IBC special provisions (IMDG)	: B2	1, B4		
Tank instructions (IMDG)	: T3			
Tank special provisions (IMDG)	: TP	33		
EmS-No. (Fire)	: F- <i>F</i>	A Contraction of the second seco		
EmS-No. (Spillage)	: S-/	A		
Stowage category (IMDG)	: B			
Properties and observations (IMD	0G) : To:	kic if swallowed, by skin conta	ct or by inhalation.	
Air transport				
PCA Excepted quantities (IATA)	: E4			
PCA Limited quantities (IATA)	: Y6			
PCA limited quantity max net qua				
PCA packing instructions (IATA)	: 669			
PCA max net quantity (IATA)	: 25			
CAO packing instructions (IATA)	: 676			
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according to Regulation (EC) No. 1907/2006 (REACH) with I	is amendment Regulation (EO) 2016/11/9
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A3, A5
ERG code (IATA)	: 6L
Inland waterway transport	
Classification code (ADN)	: T2
Special provisions (ADN)	: 274, 614, 802
Limited quantities (ADN)	: 500 g
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 2
Rail transport	
Classification code (RID)	: T2
Special provisions (RID)	: 274, 614
Limited quantities (RID)	: 500g
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W11
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE9
Hazard identification number (RID)	: 60
14.7. Transport in bulk according to Annex	II of Marpol and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Emamectin Benzoate tech. min. 95% is not on the REACH Candidate List

- Emamectin Benzoate tech. min. 95% is not on the REACH Annex XIV List
- Emamectin Benzoate tech. min. 95% is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Emamectin Benzoate tech. min. 95% is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

This product contains biocidal products	
Type of product (Biocide)	: 18 - Insecticides, acaricides and products to control other arthropods
Authorisation number	:
Contains	: Emamectin benzoate (%)
Directive 2012/18/EU (SEVESO III)	

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
H2 ACUTE TOXIC — Category 2, all exposure routes — Category 3, inhalation exposure route	50	200
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200

#### 15.1.2. National regulations

No additional information available.

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

<b>SECTION 16: Other informa</b>	ation
Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
Data sources	: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2016/1179.
Other information	: DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this

product. If the product is used as a component in another product, this SDS was prepared and is to be used only for this applicable. REACH Disclaimer: This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

Safety Data Sheet applicable for regions

: GB - United Kingdom

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SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.