

# SAFETY DATA SHEET

Creation Date 06-Jun-2017

Revision Date 24-Dec-2021

**Revision Number** 3

# 1. Identification

## **Product Name**

## Emamectin benzoate

#### Cat No. :

AC463050000; AC463050010; AC463050050

CAS No Synonyms

155569-91-8 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

# 2. Hazard(s) identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 3 Category 2 Category 2 Category 3

#### Label Elements

Signal Word Danger

Hazard Statements Toxic if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

#### Rinse mouth

#### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component		CAS No	Weight %
Emamectin benzoate		155569-91-8	> 95
	4.	First-aid measures	
General Advice	eral Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.		
Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.		
Inhalation	Remove to fr	resh air. If not breathing, give artificial re	espiration. Do not use mouth-to-mouth

	method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Do not allow run-off from fire-fighting to enter drains or water courses.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx).

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 3	Flammability 1	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental re	ease measures	
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.		
Environmental Precautions	Should not be released into	the environment.	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep container tightly closed in a dry and well-ventilated place. To maintain product quality: Keep refrigerated. Incompatible Materials. Strong oxidizing agents.

# 8. Exposure controls / personal protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

7.1119310	ai and chemical properties
Physical State	Solid
Appearance	Off-white Pale yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	146 - 150 °C / 294.8 - 302 °F
Boiling Point/Range	No information available - 294.8
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C56 H81 N O15
Molecular Weight	1008.24

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	No information available.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)		
Hazardous Polymerization	Hazardous polymerization does not occur.	

#### **Hazardous Reactions**

None under normal processing.

# 11. Toxicological information

#### Acute Toxicity

#### **Product Information Component Information**

Component		LD50 Oral		LD50 Dermal		LC50 Inhalation	
Emamectin benz	Emamectin benzoate L		) LD50 :	LD50 = 2000 mg/kg (Rat)		LC50 1.049 - 1.981 mg/L (Rat) 4	
					LC50 = 0.663	h smg/L(Rat)4 h	
						<b>0</b> ( )	
Toxicologically Syne Products	ergistic	No information avail	able				
	iate effects as	s well as chronic effect	s from short ar	d long-term exposu	re		
<u></u>				<u></u>	<u> </u>		
Irritation		Irritating to eyes, res	piratory system	and skin			
Sensitization		No information avail	able				
Carcinogenicity		The table below indi	cates whether e	ach agency has listed	any ingredient a	as a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Emamectin benzoate	155569-91-8	3 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information avail	able				
Reproductive Effect	S	No information available.					
Developmental Effe	cts	No information available.					
Teratogenicity		No information avail	No information available.				
STOT - single expos STOT - repeated exp		Respiratory system None known					
Aspiration hazard		No information avail	No information available				
Symptoms / effects delayed	,both acute ai	d No information available					
Endocrine Disruptor	r Information	No information avail	No information available				
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.					

12. Ecological information

Ecotoxicity Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Emamectin benzoate	Not listed	LC50 = 0.17 mg/L/96h	Not listed	Not listed
		(rainbow trout)		

Persistence and Degradability May persist

**Bioaccumulation/Accumulation** No information available.

# Mobility

No information available.

Component	log Pow

Emamectin benzoate		5.77	
	13. Disposal c	considerations	
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.		
	14. Transpor	t information	
DOT			
UN-No	UN2811		
Proper Shipping Name	TOXIC SOLIDS, ORGANI	C, N.O.S.	
Technical Name	Emamectin benzoate		
Hazard Class	6.1		
Packing Group	III		
<u>TDG</u>			
UN-No	UN2811		
Proper Shipping Name	Toxic solid, organic, n.o.s.		
Hazard Class	6.1		
Packing Group	III		
IATA UN-No	UN2811		
••			
Proper Shipping Name Hazard Class	Toxic solid, organic, n.o.s. 6.1		
Packing Group	0.1 III		
IMDG/IMO			
UN-No	UN2811		
Proper Shipping Name	Toxic solid, organic, n.o.s.		
Hazard Class	6.1		
Packing Group	III		

# United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
Emamectin benzoate	155569-91-8	-	-	-	

15. Regulatory information

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Emamectin benzoate	155569-91-8	-	-	-	-	-		-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

**SARA 313** 

Not applicable

See section 2 for more information SARA 311/312 Hazard Categories

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Emamectin benzoate	155569-91-8	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Emamectin benzoate	155569-91-8	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	06-Jun-2017 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
Disclaimer	

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**