

Emamectin benzoate 19.2g/L EC

Safety Data Sheet

according to Regulation (EU) 2015/830
Issue date: 2/9/2021 Revision date: 2/9/2021 Version: 1.0

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

1.1. Product identifier

Trade name : Not available
Chemical name : Emamectin benzoate 19.2g/L EC

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Insecticide

1.2.2. Uses advised against

Restrictions on use : No information available

1.3. Details of the supplier of the safety data sheet

Supplier:
Sinochem Agro Co., Ltd,
4th Fl, No. 233 North Changqing Road, Shanghai 200126 China
T 0086-21-62389888 - F 0086-21-61381931

1.4. Emergency telephone number

Emergency number : 0086-21-62389888

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral, Category 3

Acute toxicity - Dermal, Category 3

Serious eye damage, Category 1

Acute toxicity - Inhalation, Category 3

Specific target organ toxicity \u2013 single exposure, Category 1

Specific target organ toxicity \u2013 repeated exposure, Category 1

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger!

Hazard statements (CLP)

: H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled
H318 Causes serious eye damage
H370 Causes damage to organs
H372 Causes damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P264 Wash...thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves/protective clothing/eye protection/face protection
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P271 Use only outdoors or in a well-ventilated area
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P273 Avoid release to the environment

EUH-statements

: None.

2.3. Other hazards

Other hazards not contributing to the classification : No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	g/L
Emamectin benzoate	CAS-No.: 155569-91-8	19.2
Xylene	CAS-No.: 1330-20-7	50
Emulsifier 6075(mixture of fattyalcohol-polyoxyethylene ether and polyoxyethylenecastor oil)	CAS-No.:9002-92-0 CAS-No.: 61791-12-6	150
BHT(2,6-di-tert-butylp-cresol)	CAS-No.:128-37-0	10
1-hexanol	CAS-No.: 111-27-3	303
Solvent 150	CAS-No.: 64742-94-5	Up to 1L

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

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First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
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. Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, alcohol-resistant foam, dry chemical or Carbon dioxide.
Unsuitable extinguishing media : High volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Nitrogen oxides.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Use personal protective equipment as required. Avoid breathing dust, mist or spray. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to a safe area.

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. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Ensure good ventilation of the work station. Avoid breathing dust, mist or spray.
- 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 any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Insecticide

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL (additional information)

Additional information	Not available
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PNEC (additional information)

Additional information	Not available
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8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Not necessary under the recommended storage and handling conditions. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

No special protection required. Wear security glasses which protect from splashes

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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 : Liquid

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Appearance	: Liquid.
Colour	: Light yellow
Odour	: A characteristic phenolic odor
pH	: 5.58(1% solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 141-146°C
Freezing point	: No data available
Boiling point	: Decomposes before boiling
Flash point	: 72°C
Auto-ignition temperature	: No data available
Decomposition temperature	: 194°C
Flammability (solid, gas)	: Not highly flammable
Vapour pressure	: 4×10^{-3} mpa @21°C
Relative vapour density at 20 °C	: No data available
Relative density	: 0.91
Density	: 0.91 g/ml @ 20°C
Water solubility	: 0.024 g/L at 25 °C (pH 7) /Emamectin benzoate
Partition coefficient n-octanol/water (Log Pow)	: log Kow = 5.0 at pH 7 /Emamectin benzoate
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

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

No information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified LD ₅₀ >2000 mg/kg (rat, males &femals)
Acute toxicity (dermal)	: Not classified LD ₅₀ >2000 mg/kg (rat, males &femals)
Acute toxicity (inhalation)	: Not classified LC ₅₀ >5.12mg/l/4h (rat)
Skin corrosion/irritation	: irritating to skin (rabbit)

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Serious eye damage/irritation	: irritating to eye (rabbit)
Respiratory or skin sensitisation	: Not a skin sensitiser(Guinea pig)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Birds Acute oral LD50 for mallard ducks 46, bobwhite quail 264 mg/kg. Dietary LC50 (8 d) for mallard ducks 570, bobwhite quail 1318 ppm.
Fish LC50 (96 h) for rainbow trout 174, sheepshead minnow 1430 mg/l.
Daphnia LC50 0.99 mg/l. Bees Toxic to bees.
Worms LC50 >1000 mg/kg dry soil.
Other beneficial spp. Safe to a wide range of beneficial insects, due rapid breakdown of the a.i., limiting contact activity to <48 h.

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

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2902	2902	2902	2902	2902
14.2. UN proper shipping name				
Environmentally Hazardous Substance, Liquid, N.O.S	Environmentally Hazardous Substance, Liquid, N.O.S	Environmentally Hazardous Substance, Liquid, N.O.S	Environmentally Hazardous Substance, Liquid, N.O.S	Environmentally Hazardous Substance, Liquid, N.O.S
14.3. Transport hazard class(es)				
6.1	6.1	6.1	6.1	6.1
14.4. Packing group				
III	III	III	III	III

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14.5. Environmental hazards

Yes

Yes

Yes

Yes

Yes

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance 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.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Emamectin benzoate: Listed on NZIoC (New Zealand Inventory of Chemicals)

Emamectin benzoate : Not Listed on IECSC (Inventory of Existing Chemical Substances in China)

Emamectin benzoate: Not Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Emamectin benzoate: Not Listed on EC inventory

Emamectin benzoate: Not Listed on TSCA(United States Toxic Substances Control Act Inventory)

Emamectin benzoate: Not listed on PICCS (Philippines Inventory of Chemicals and Chemical Substance)

Emamectin benzoate: Not listed on Vietnam National Chemical Inventory

Emamectin benzoate: Not listed on China Catalog of Hazardous Chemicals 2015

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Ontwikkeling

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
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
WGK	Water Hazard Class

Data sources : LOLI.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Harmful to aquatic life with long lasting effects

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.