

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 06 Mar 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Emamectin B1a

1.1. Catalog No.:

679132

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

Hazard statements

- Hazard statements H301 Toxic if swallowed H311 Toxic in contact with skin H318 Causes serious eye damage H331 Toxic if inhaled 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

2.2. Label elements

2.2.1. Pictogram







Danger

P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
2.3. Other hazards
No information available.
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Precautionary Statements - EU (§28, 1272/2008)

Classification according to Regulation (EC) No. 1272/2008 [CLP] Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H311) Acute Tox. 3 (H311) Acute Tox. 3 (H311) STOT SE 1 (H370) STOT SE 1 (H370) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Full text of H- and EUH-phrases: see section 16 Acute Toxicity Estimate No information available This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

3.1.1. Formula

C49H75NO13

3.1.2. Molecular Weight (g/mol)

886.12



3.1.3. CAS-No.

121124-29-6

4. FIRST AID MEASURES

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not breathe dust. 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. If breathing is difficult, (trained personnel should) give oxygen. Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Skin contact Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Do not breathe dust. 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. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. 4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Large Fire CAUTION: Use of water spray when fighting fire may be inefficient. Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams. 5.2. Special hazards arising from the substance or mixture Specific hazards arising from the chemical No information available. 5.3. Advice for firefighters Special protective equipment and

precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.



6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust. Keep people away from and upwind of spill/leak. Other information Refer to protective measures listed in Sections 7 and 8. For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Methods for containment Prevent further leakage or spillage if safe to do so. Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations. 6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash it before reuse. Do not eat,

drink or smoke when using this product. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in

closed system or provide appropriate exhaust ventilation.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face

protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Take off contaminated clothing and wash it before reuse. Contaminated work clothing

should not be allowed out of the workplace. 7.2. Conditions for safe storage, including any incompatibilities Storage Conditions Please refer to the manufacturers certificate for specific storage and transport temperature

conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

7.3. Specific end use(s) Identified uses

Risk Management Methods: The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies Derived No Effect Level (DNEL) No information available. Predicted No Effect Concentration (PNEC) No information available. 8.2. Exposure controls Personal protective equipment Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing safety goggles. Hand protection The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable gloves. Impervious gloves. Glove material: Wear protective butyl rubber gloves



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Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside,

before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Take off contaminated clothing and wash it before reuse. Contaminated work clothing

should not be allowed out of the workplace.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties Physical state Solid Appearance Solid Colour off-white Odour No information available. Odour threshold No information available 9.2. Other information Property Values Melting point / freezing point 141 - 146 °C Boiling point / boiling range No data available Flammability (solid, gas) No data available Flammability Limit in Air Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available Flash point No data available Autoignition temperature No data available Decomposition temperature pH No data available pH No data available pH (as aqueous solution) No data available No information available Kinematic viscosity No data available Dynamic viscosity No data available Water solubility 0.024 g/L Solubility(ies) No data available Partition coefficient 5.0 Partition coefficient 5.0 Vapour pressure No data available Relative density 1.23 Bulk density No data available Liquid Density No data available Relative vapour density No data available Particle characteristics Particle Size No information available Particle Size Distribution No information available 9.2 Other information 9.2. Other information Molecular weight 886.1 Molecular formula C49 H75 N O13 9.2.1. Information with regards to physical hazard classes Not applicable 9.2.2. Other safety characteristics No information available



10.1. Reactivity Reactivity No information available.
10.2. Chemical stability Stability Stable under normal conditions.
Explosion data Sensitivity to mechanical impact None.
Sensitivity to static discharge None.
10.3. Possibility of hazardous reactions Possibility of hazardous reactions None under normal processing.
10.4. Conditions to avoid Conditions to avoid Excessive heat.
10.5. Incompatible materials Incompatible materials Strong acids. Strong bases. Strong oxidizing agents. Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of exposure Product Information Inhalation Specific test data for the substance or mixture is not available. Toxic by inhalation. (based on components). Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes. Skin contact Specific test data for the substance or mixture is not available. May cause irritation. Toxic in contact with skin. (based on components). Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Toxic if swallowed. (based on components) Symptoms related to the physical, chemical and toxicological characteristics Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing. Numerical measures of toxicity No information available Acute toxicity Delayed and immediate effects as well as chronic effects from short and long-term exposure Skin corrosion/irritation May cause skin irritation. Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes. Respiratory or skin sensitisation No information available. Germ cell mutagenicity No information available. Carcinogenicity No information available. Carcinogenicity No information available. Reproductive toxicity No information available. STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed. Causes damage to organs in contact with skin. STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. Aspiration hazard No information available. 11.2.1. Endocrine disrupting properties Endocrine disrupting properties No information available. 11.2.2. Other information 11.2.2. Other information

Other adverse effects No information available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity Very toxic to aquatic life with long lasting effects. 12.2. Persistence and degradability



Persistence and degradability No information available. 12.3. Bioaccumulative potential Bioaccumulation There is no data for this product.

12.4. Mobility in soil

Mobility in soil No information available. 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available. 12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available. 12.7. Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

IATA 14.1 UN number or ID number UN2811
14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Emamectin B1a)
14.3 Transport hazard class(es) 6.1 14.4 Packing group III Description UN2811, Toxic solid, organic, n.o.s. (Emamectin B1a), 6.1, III 14.5 Environmental hazards Yes 14.6 Special precautions for user Special Provisions A3, A5 ERG Code 6L IMDG 14.1 UN number or ID number UN2811 14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Emamectin B1a) 14.3 Transport hazard class(es) 6.1 14.4 Packing group III Description UN2811, Toxic solid, organic, n.o.s. (Emamectin B1a), 6.1, III, Marine pollutant 14.5 Marine pollutant P Environmental hazards Yes 14.6 Special precautions for user Special Provisions 223, 274 EmS-No F-A, S-A No information available 14.7 Maritime transport in bulk according to IMO instruments No information available RID 14.1 UN number or ID number UN2811 14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Emamectin B1a) 14.3 Transport hazard class(es) 6.1 14.4 Packing group III Description UN2811, Toxic solid, organic, n.o.s. (Emamectin B1a), 6.1, III, Environmentally Hazardous 14.5 Environmental hazards Yes 14.6 Special precautions for user Special Provisions 274, 614 Classification code T2 ADR 14.1 UN number or ID number UN2811



14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Emamectin B1a) 14.3 Transport hazard člass(es) 6.1 14.4 Packing group III Description UN2811, Toxic solid, organic, n.o.s. (Emamectin B1a), 6.1, III, (E), Environmentally Hazardous 14.5 Environmental hazards Yes 14.6 Special precautions for user Special Provisions 274, 614 Classification code T2 Tunnel restriction code (E)

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Water hazard class (WGK) strongly hazardous to water (WGK 3) European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This

product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors Not applicable

Persistent Organic Pollutants

Not applicable

Hot applicable
Dangerous substance category per Seveso Directive (2012/18/EU)
H2 - ACUTE TOXIC
H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable 15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment has been carried out for this substance

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!