Date: Apr.4th, 2025

Material Safety Data Sheet

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

1.1 Product name: Emamectin Benzoate 95%TC

1.2 Usage: Insecticide.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture (GHS Classification):

Acute toxicity, Oral (Category 4),

Eye irritation (Category 3),

Acute aquatic toxicity (Category 1),

Chronic aquatic toxicity (Category 1),

2.2. Label elements

Pictograms: 

Hazard statement(s)

H302 Harmful if swallowed.

H320 Causes eye irritation.

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P273 Avoid release to the environment.

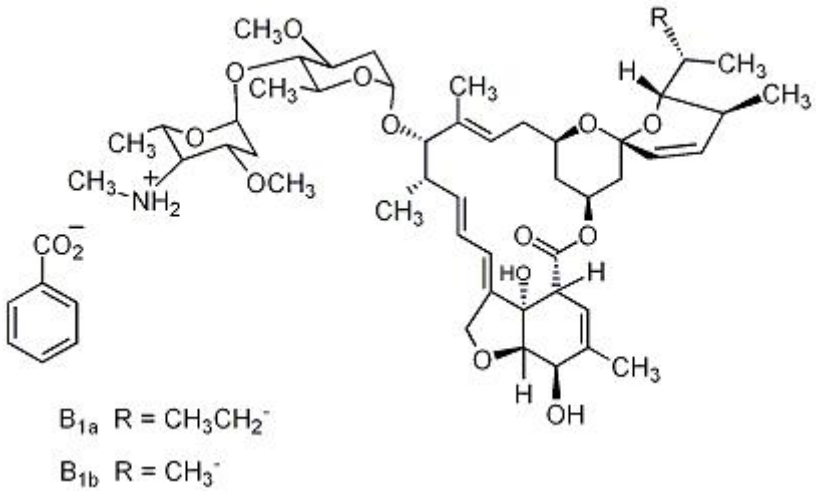
P281 Use personal protective equipment as required

P501 Dispose of contents/ container to an approved waste disposal plant

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

SECTION 3: Composition/information on ingredients

3.1. Substances



3.2. Mixtures name

Material	CAS No.	%	Hazard Symbols: (Xi, T, N) H- and P-Phrases *
Hydroxypropyl Methylcellulose		5 min	Xn N H302 H320 H410 P273 P281 P501 P301+312
cornstarch	155569-91-8	95 min	

* Description of H- and P-phrases in section 16 hereof.

SECTION 4: First aid measures

4.1. Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance.

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

- if inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

- if swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- if in contact with skin

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

- if in contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx)

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

6.3. Methods and material for containment and cleaning up.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash h ands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)..

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose ofcontaminated gloves after use in accordance with applicable lawsand good laboratory practices.Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

Appearance: Off-White to White granule.

pH value: 4.0~8.0

Suspensibility: 60.0% min

Wet Sieve Test (75μm sieve) : 98.0% min.

Water content: 3.0%max

Wet ability: 60s max

Dispersion: 80%min.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Not available.

10.4. Conditions to avoid

Not available.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Other decomposition products - no data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute - LD_{50} oral >1000 mg/kg(rats).

Acute - LD_{50} dermal > 2000 mg/kg (rats).

Acute - LD_{50} inhalation (4 h) for rats >5.0 mg/l.

Eye irritation rabbits – Slight irritant.

Skin irritation rabbits - Non irritant.

Skin sensitization guinea pigs – Not a skin sensitiser

SECTION 12: Ecological information

Birds: Acute oral LD_{50} for mallard ducks 76, bobwhite quail 264 mg/kg.

Dietary LC_{50} (8 d) for mallard ducks 570, bobwhite quail 1318 ppm.

Fish: LC_{50} (96 h) for rainbow trout 174, sheepshead minnows 1430 µg/l.

Daphnia: LC_{50} (48 h) 0.99 µg/l.

Bees: Toxic to bees.

Worms: LC_{50} >1000 mg/kg dry soil.

SECTION 13: Disposal considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard class : 6.1

Packing group : II

UN No. : 2811

MP:YES

SECTION 15: Regulatory information

See section 2.

SECTION 16: Other information

16.1 description H- and P-phrases.

Hazard statement(s)

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16.2 Other information.

MSDS Created Date:June 28th, 2022

HEBEI JRAIN TECHNOLOGY CO.,LTD.