

# Emamectin metabolite (formyl amino type)

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: K3-18

Version: 03

# Safety Data Sheet

## 1. Chemical product and company identification

| •   |              |  |
|---|--------------|--|
| Product name  | :            | Emamectin metabolite (formyl amino type)   |
| SDS code  | :            | K3-18  |
| Company/undertaking<br>identification<br>HAYASHI PURE CHEMICAL<br>Address : 3-2-12 Uchihirano<br>Telephone : 06-6910-7305<br>E-mail : shiyaku_kikaku@hp<br>URL : https://www.hpc-j.co.j | oma<br>oc-j. | chi, Chuo-ku, Osaka, Osaka, Japan  |
| Emergency number  | :            | 06-6910-7305   |
| Recommended use   | :            | For research and experimental use only.  |
| Restrictions on use   | :            | Do not use for any purpose other than research and experiment. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc. Do not use in the environment. |

## 2. Hazards identification

#### **GHS** classification

| Explosives   | classification not possible   |
|--|---|
| Flammable gases  | No classification   |
| Aerosol  | classification not possible   |
| Oxidizing gases  | No classification   |
| Gases under pressure   | No classification   |
| Flammable liquids  | No classification   |
| Flammable solids   | classification not possible   |
| Self-reactive substances and mixtures                                    | classification not possible   |
| Pyrophoric liquids   | No classification   |
| Pyrophoric solids  | classification not possible   |
| Self-heating substances and<br>mixtures                                  | classification not possible   |
| Substances and mixtures which in contact with water emit flammable gases | classification not possible   |
| Oxidizing liquids  | No classification   |
| Oxidizing solids   | classification not possible   |
| Organic peroxides  | classification not possible   |
| Corrosive to metals  | classification not possible   |
| Desensitized explosives  | classification not possible   |
| Acute toxicity (oral)  | classification not possible   |
| Acute toxicity (dermal)  | classification not possible   |
| Acute toxicity (inhalation:gas)  | classification not possible   |
| Acute toxicity (inhalation:vapors)                                       | classification not possible   |
| Acute toxicity (inhalation:dust/mist)                                    | classification not possible   |
| Skin corrosion/irritation  | classification not possible   |
| Serious eye damage/eye irritation  | classification not possible   |
| Respiratory sensitization  | classification not possible   |
| Skin sensitization   | classification not possible   |
| Germ cell mutagenicity   | classification not possible   |
| Carcinogenicity  | classification not possible   |
| Reproductive toxicity  | classification not possible   |
| Specific target organ toxicity (single exposure)                         | classification not possible   |
|  | Flammable gasesAerosolOxidizing gasesGases under pressureFlammable liquidsFlammable solidsSelf-reactive substances and<br>mixturesPyrophoric liquidsPyrophoric solidsSelf-heating substances and<br>mixturesSubstances and mixtures which in<br>contact with water emit flammable<br> |

|                          | Specific target organ toxicity (repeated exposure)        | classification not possible |
|--------------------------|---|-----------------------------|
|                          | Aspiration hazard   | classification not possible |
| Environmental<br>hazards | Hazardous to the aquatic environment, short-term (acute)  | classification not possible |
|                          | Hazardous to the aquatic environment, long-term (chronic) | classification not possible |
|                          | Hazardous to the ozone layer                              | classification not possible |

### 3. Composition/information on ingredients

| Name Concentra              |            | on range | Formula               | CSCL no ISHL no |               | CAS RN |
|-----------------------------|------------|----------|-----------------------|-----------------|---------------|--------|
|                             | Concentrat | tion or  |                       | Kanpo number    |               |        |
| Synonyms                    |            | : (4"R)- | 5-O-demethyl-4"-deoxy | /-4"-(formylami | no)-avermecti | n A1a  |
| Distinction of substance of | or mixture | : Subst  | ance                  |                 |               |        |

NameConcentration or<br/>Concentration rangeFormulaRampo HumberCAS RNEmamectin metabolite<br/>(formyl amino type)≥82%B1a:C49H73NO14,<br/>B1b:C48H71NO14--169265-45-6

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

## 4. First aid measures

| First aid measures                      |   |  |
|---|---|--|
| First-aid measures after inhalation     | : | Remove person to fresh air and keep comfortable for breathing.   |
|   |   | Get immediate medical advice/attention.  |
| First-aid measures after skin           | : | Remove/Take off immediately all contaminated clothing.   |
| contact                                 |   | Gently wash with plenty of soap and water.   |
|   |   | Get immediate medical advice/attention.  |
| First-aid measures after eye<br>contact | : | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|   |   | Get immediate medical advice/attention.  |
| First-aid measures after ingestion      | : | Rinse mouth.   |
|   |   | Get immediate medical advice/attention.  |

#### 5. Fire fighting measures

| : | Use proper extinguishing media depending on peripheral fire.   |  |
|---|--|--|
| : | Do not use a heavy water stream.   |  |
| : | In case of fire, product may produce irritative or toxic fumes/gases.  |  |
| : | If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers. |  |
|   | In the case of peripheral fire, quickly remove movable containers to safe places.  |  |
|   | If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.                                  |  |
| : | Wear appropriate fire-resistant clothing including self contained-<br>compressed air breathing apparatus.                                |  |
|   | ::   |  |

#### 6. Accidental release measures

#### Personal Precautions, Protective Equipment and Emergency Procedures

| General measures          | : | Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee. |
|---------------------------|---|--|
| Environmental precautions |   |  |
| Environmental precautions | : | Avoid release to the environment.  |
|                           |   | Prevent entry to sewers and public waters.   |

#### Methods and Equipment for Containment and Cleaning up

| Methods and Equipment for Cont                           | ainm | ient and Cleaning up  |
|--|------|---|
| Methods for cleaning up                                  |      | Take care not to generate dust, sweep it up as much as possible, collect it in an empty container that can be sealed, and move it to a safe place.  |
|  |      | Wash out the spilled area with large amounts of water.  |
| 7. Handling and storage                                  |      |   |
| Technical measures                                       | :    | Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing.                                   |
|  |      | Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.                    |
| Precautions for safe handling                            | :    | Do not eat, drink or smoke when using this product.   |
|  |      | Thoroughly wash your hands and gargle after handling.   |
|  |      | Ensure good ventilation of the work station.  |
|  |      | Do not contact, breathe or swallow.   |
| Prevents handling of incompatible substances or mixtures | :    | Avoid prolonged or repeated exposure.   |
| Storage  |      |   |
| Storage conditions                                       | :    | Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources.<br>Ar filling. |
| Material used in<br>packaging/containers                 | :    | Light shielding airtight container.   |
| Technical measures                                       | :    | Comply with applicable regulations.   |
| Storage temperature                                      | :    | Freeze: -20°C   |
|  |      |   |

## 8. Exposure controls / Personal protection equipment

| Appropriate engineering controls | : Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location. |
|----------------------------------|--|
| Protective equipment             |  |
| Respiratory protection           | : Dustproof mask   |
| Hand protection                  | : Protective gloves  |
| Eye protection                   | : Protective glasses (general glasses, glasses with side-shields, goggles)   |
| Skin and body protection         | : Protective clothing, Protective boots, Protective apron  |

## 9. Physical and chemical properties

|                           |   | •                 |
|---------------------------|---|-------------------|
| Physical state            | : | Solid             |
| Appearance                | : | Powder            |
| Color                     | : | light yellow      |
| Odor                      | : | No data available |
| рН                        | : | No data available |
| Melting point             | : | No data available |
| Freezing point            | : | No data available |
| Boiling point             | : | No data available |
| Flash point               | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapor pressure            | : | No data available |
| Relative density          | : | No data available |
| Density                   | : | No data available |
| Relative gas density      | : | No data available |
| Solubility                | : | No data available |
| Partition coefficient n-  | : | No data available |
| octanol/water (Log Pow)   |   |                   |

| Explosive limits (vol %) | : | No data available |
|--------------------------|---|-------------------|
| Viscosity, kinematic     | : | No data available |
| Particle characteristics | : | No data available |

## **10. Stability and reactivity**

| Reactivity                          | : | No data available  |
|-------------------------------------|---|--------------------|
| Chemical stability                  | : | No data available  |
| Possibility of hazardous reactions  | : | No data available  |
| Conditions to avoid                 | : | Sunlight, heat     |
| Incompatible materials              | : | No data available  |
| Hazardous decomposition<br>products | : | Nitrogen compounds |

## **11. Toxicological information**

The information in this section is based on the "GHS Classification Results" by NITE.

| Emamectin metabolite (formyl amino type) |                   |  |  |
|--|-------------------|--|--|
| Acute toxicity (oral)                    | No data available |  |  |
| Acute toxicity (dermal)                  | No data available |  |  |
| Acute toxicity (gas)                     | No data available |  |  |
| Acute toxicity (vapour)                  | No data available |  |  |
| Acute toxicity (inhalation:dust/mist)    | No data available |  |  |
| Skin corrosion/irritation                | No data available |  |  |
| Serious eye damage/irritation            | No data available |  |  |
| Respiratory sensitization                | No data available |  |  |
| Skin sensitization                       | No data available |  |  |
| Germ cell mutagenicity                   | No data available |  |  |
| Carcinogenicity                          | No data available |  |  |
| Reproductive toxicity                    | No data available |  |  |
| STOT-single exposure                     | No data available |  |  |
| STOT-repeated exposure                   | No data available |  |  |
| Aspiration hazard                        | No data available |  |  |

### 12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

| Emamectin metabolite (formyl amino type)             |                   |  |
|--|-------------------|--|
| Hazardous to Aquatic Environment -<br>Acute Hazard   | No data available |  |
| Hazardous to Aquatic Environment -<br>Chronic Hazard | No data available |  |
| Persistence and degradability                        | No data available |  |
| Bioaccumulative potential                            | No data available |  |
| Mobility in soil                                     | No data available |  |
| Hazardous to the ozone layer                         | No data available |  |

### 13. Disposal considerations

| Ecology - waste materials            | : | With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor. |
|--------------------------------------|---|--|
| Contaminated container and packaging | : | Empty the packaging completely prior to disposal.  |
|                                      |   | Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.                         |

### 14. Transport information

#### International Regulations

#### Transport by sea(IMDG)

| UN-No. (IMDG)                     | : Not applicable   |
|-----------------------------------|--|
| Proper Shipping Name (IMDG)       | : Not applicable   |
| Packing group (IMDG)              | : Not applicable   |
| Transport hazard class(es) (IMDG) | : Not applicable   |
| Air transport(IATA)               |  |
| UN-No. (IATA)                     | : Not applicable   |
| Proper Shipping Name (IATA)       | Not applicable   |
| Packing group (IATA)              | Not applicable   |
| Transport hazard class(es) (IATA) | : Not applicable   |
| Marine pollutant                  | : Not applicable   |
| Regulations in Japan              |  |
| Regulatory information by sea     | : Not applicable   |
| Regulatory information by air     | : Not applicable   |
| Special transport precautions     | : When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers. |

#### 15. Regulatory information

#### National law

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|---|
|   |
| 6 |

#### 16. Other information

Data sources

Other information

- Handbook of 17322 Chemical Products, The Chemical Daily Co, Ltd. • International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).
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