

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Emamectin B1 Benzoate

Product ID E4902

Chemical Name

MK-244, Affirm, Proclaim.

(Synonyms)

LKT Laboratories, Inc.

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Emergency Phone #

1-800-424-9300

Section 2. Hazards Identification

GHS Classification

Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Eye irritation (Category 2A), H319 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

GHS Label elements including precautionary statements

Pictogram





Signal word

Hazard and precautionary statements

Hazard statement(s)
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Avoid breathing dust, fumes, gas, mist, vapors, spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid rélease to the environment.

P280 Wear protective gloves/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P322 Specific measures (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up

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

HMIS Classification

Health hazard: 2 Chronic health hazard: * Flammability: 0 Physical hazard: 0

NFPA Rating

Health hazard: 2 Fire hazard: 0 Reactivity hazard: 0

Potential Health Effects

Inhalation - Acute toxicity. Toxic if inhaled. May cause respiratory tract irritation. Skin - Acute toxicity. Toxic in contact with skin. May cause skin irritation. Eyes - Causes serious eye irritation.

Section 3. Composition/Information on Ingredients

Substances Ingredient: Title Compound Percent: 100

886.12 **Formula** Formula Wt. $C_{49}H_{75}NO_{13}$

137512-74-4 CAS No. EC No.

Section 4. First Aid Measues

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water.

Inhalation

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

Ingestion

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

Section 5 . Firefighting Measures

Flash Point

Not available.

Extingushing Media

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

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary.

Carbon oxides, nitrogen oxides (NOx).

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions

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

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Section 7. Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Ambient

Hazardous Decomposition Products

Not available.

Protect from light.

Other Remarks

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

General industrial hygiene practice.

PERSONAL PROTECTION

Eye/face protection: 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 of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry

Body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances and to the specific workplace. The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties Solid Yellow crystalline powder **Physical State** Color Not available. Not available. **Boiling Point** Volatility 141-146°C Not available. **Melting Point Density** Soluble in chloroform or methanol. Not available. Solubility pН Not available. Not available. Ignition Flash Point temperature Not available. Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Not available. Not available. Water solubility Odor Partition coefficient: Not available. Not available. Odor n-octanol/water Threshold Relative vapor density Not available. Not available. **Evaporation** rate

Section 10. Stability and Reactivity

Stable under recommended storage conditions. Stability

Strong oxidizing agents. **Materials To Avoid**

Hazardous Not available.

Decomposition Products

Possibility of Not available. hazardous reactions

Conditions to avoid

Not available.

Section 11. Toxicological Information

Oral LD50 Rat: 76 mg/kg Skin Rabbit: Mild skin irritation

corrosion/irritation

Inhalation LC50 Rat (female): 4 h - 0.663 mg/l Serious eye Rabbit: Moderate eye irritation

Rat (male): 4 h - 1,049.0 mg/l damage/irritation

Dermal LD50 Not available. Respiratory or Not available.

skin sensitization

Germ cell mutagenicity Not available. Other information on Not available.

acute toxicity

Reproductive Toxicity Rat - Maternal Effects: Other effects. Effects Aspiration Hazard Not available.

on Newborn: Growth statistics (e.g., reduced

weight gain). Effects on Newborn: Behavioral.

Specific organ toxicity Not available. Synergistic effects Not available. single exposure (GHS)

Specific organ toxicity Not available. Additional Information Not available. repeated exposure (GHS)

Teratogenicity Not available. Signs and symptoms Not available. of exposure

Potential Inhalation - Acute toxicity. Toxic if inhaled. May cause respiratory tract irritation.

Health Effects Skin - Acute toxicity. Toxic in contact with skin. May cause skin irritation.

Eyes - Causes serious eye irritation.

Ingestion - Acute toxicity. Toxic if swallowed.

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity LC50 - Oncorhynchus mykiss (rainbow trout) - 0.17 mg/l - 96.0 h Mobility in soil Not available.

EC50 - Daphnia - 0.001 mg/l - 48 h

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Dispose of material according to all federal, state and local regulations.

Waste Disposal Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

DOT (US) UN number: 3077 Class: 9 Packing Group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Emamectin B1 Benzoate)

UN number: 3077 Class: 9 Packing Group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Emamectin B1 Benzoate)

IMDG UN number: 3077 Class: 9 Packing Group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Emamectin B1 Benzoate)

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components No SARA hazards.

Massachusetts Right No components are subject to the Massachusetts Right to Know Act. To Know Components

Pennsylvania Right Emamectin B1 Benzoate CAS #: 137512-74-4 Revision Date: To Know Components

New Jersey Right Emamectin B1 Benzoate CAS #: 137512-74-4 Revision Date: To Know Components

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

Other information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 7/16/2019

For emergencies in the USA, call CHEMTREC 800-424-9300