This SDS packet was issued with item:

078490941

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078490933

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017



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

Product information

Product Name: Cydectin Injection solution 1%

SDS Number: 122000009740

Use : veterinary medicine

Company

Bayer HealthCare, LLC Animal Health Division 12707 Shawnee Mission Parkway (West 63rd) Shawnee, KS 66216-1846 UNITED STATES OF AMERICA (800) 633-3796

In case of emergency: (800) 422-9874

Chemtrec: (800) 424-9300

BAYER INFORMATION PHONE: (800) 633-3796

INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to national GHS implementation:

Flammable liquids, Category 2 (H225) Reproductive toxicity, Category 2 (H361)

Label elements

Labelling according to national GHS implementation:





Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

Prevention:

P243 Take precautionary measures against static discharge.

P233 Keep container tightly closed.

P281 Use personal protective equipment as required.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017



Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

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

Hazardous components which must be listed on the label:

Components: CAS-No.
Moxidectin 113507-06-5

Other hazards

Other hazards which do not result in classification:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Hazardous components

Ethanol

Concentration [Weight percent] 20.22

CAS-No.: 64-17-5 CAS name: Ethanol

GHS Classification:



Flam. Liq. 2 H225

Moxidectin

Concentration [Weight percent] 0.9595

CAS-No.: 113507-06-5

CAS name: Milbemycin B, 5-O-demethyl-28-deoxy-25-[(1E)-1,3-dimethyl-1-butenyl]-6,28-epoxy-23-

(methoxyimino)-, (6R,23E,25S)-

GHS Classification:



Acute Tox. 4 H332 Acute Tox. 3 H301 Repr. 2 H361fd

M-Factor: 10,000

Ethanol

Concentration [Weight percent] >= 20 - < 30

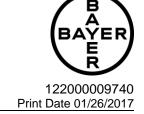
CAS-No.: 64-17-5 CAS name: Ethanol

Synonyms: ethanol, ethanol (In alcoholic beverages), ethanol (Anhydrous)

Index-No.: 603-002-00-5

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017







Flam. Liq. 2 H225

Moxidectin

Concentration [Weight percent] >= 0.1 - < 1

CAS-No.: 113507-06-5

CAS name: Milbemycin B, 5-O-demethyl-28-deoxy-25-[(1E)-1,3-dimethyl-1-butenyl]-6,28-epoxy-23-

(methoxyimino)-, (6R,23E,25S)-

Synonyms: (6R,23E,25S)-5-O-demethyl-28-deoxy-25-[(1E)-1,3-dimethyl-1-butenyl]-6,28-epoxy-23-

(methoxyimino)milbemycin B

GHS Classification:



Acute Tox. 4 H332 Acute Tox. 3 H301 Repr. 2 H361fd

M-Factor: 10,000

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. Call a physician immediately.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Most important acute symptoms/effects

Indication of any immediate medical attention and special treatment needed

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Special hazards arising from the substance or mixture

Specific hazards during firefighting: Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO2)

Cydectin Injection solution 1%





Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Use adequate ventilation.

Environmental precautions

Methods and materials for containment and cleaning up

Methods for cleaning up: Suppress (knock down) gases/vapours/mists with a water spray jet. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in closed containers. Label for proper disposal.

Reference to other sections

Additional advice: No special precautions required.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling:

Industrial uses: Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

Conditions for safe storage, including any incompatibilities

Specific end use(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Components with workplace control parameters

CAS-No. Value type Components Control Basis (Form of parameters / exposure) Permissible concentration TWA **US WEEL** Propane-1,2-diol 57-55-6 10 mg/m3 Ethanol 64-17-5 STEL 1,000 ppm **ACGIH** 1,000 ppm NIOSH REL **TWA** 1,900 mg/m3 TWA 1,000 ppm OSHA Z-1 1,900 mg/m3 **TWA** 1,000 ppm OSHA P0

Cydectin Injection solution 1%



1,900 mg/m3

Hazardous components without workplace control parameters

Components	CAS-No.
Moxidectin	113507-06-5

Personal protective equipment

Respiratory protection Recommended Filter type:

Organic vapor with prefilter

None required for consumer use of this product.

Hand protection

Material Chemically resistant gloves.

None required for consumer use of this product. Remarks

Eye protection Safety glasses

None required for consumer use of this product.

No special safety precautions are required during handling of Protective measures

> pharmaceuticals in their intended finished form (tablets or liquid formulations) by chemists, the hospital's medical staff

or patients.

For the intake of ready for use pharmaceutials or the external use on the skin please read the label and the package leaflet.

Wear suitable protective equipment.

Please consult label for end-user requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: solution Colour: clear

to

Pale yellow

Odour: No statements available. Melting point/range: No statements available. Boiling point/boiling range: No statements available. Density: No statements available.

Bulk density: Not applicable

No statements available. Vapour pressure: Viscosity, dynamic: No statements available. Viscosity, kinematic: No statements available. Flow time: No statements available. Surface tension: No statements available.

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017 Print Date 01/26/2017

Water solubility:

Solubility(ies):

PH:

No statements available.

Partition coefficient Ethanol

(n-octanol/water): log Pow: -0.320

log Pow: -0.320

Flash point: No statements available.

Inflammability (solid, gaseous): Not applicable

Explosion limits: Ethanol

upper: 15 %(V) lower: 3.5 %(V) upper: 15 %(V) lower: 3.5 %(V)

Other information

Miscibility with water: No statements available.

10. STABILITY AND REACTIVITY

Reactivity

No statements available.

Reactions with water / air:

No statements available.

Ignition temperature:

Ethanol 425 °C

425 °C

Burning number:

No statements available.

Chemical stability

No statements available.

Thermal decomposition:

No data available

Dust explosion characteristic number:

Not applicable

Dust explosion class:

Not applicable

Impact sensitivity:

No data available

Hazardous reactions:

No data available

Explosive properties:

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017 Print Date

122000009740 Print Date 01/26/2017

No statements available.

Possibility of hazardous reactions

deflagration ability:

No statements available.

Smoldering combustion:

No statements available.

Conditions to avoid

No data available

Minimum ignition energy:

No data available

Oxidizing properties:

No statements available.

Incompatible materials

Materials to avoid:

Oxidizing agents

Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate (ATE): > 5,000 mg/kg

Method: Calculation method

Components:

Ethanol:

Acute oral toxicity : LD50 (Rat): 10,470 mg/kg

Method: OECD 401

Assessment: No adverse effect has been observed in acute

toxicity tests.

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l, ca. 65360 ppm

Exposure time: 4 h Method: OECD 403

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg

Assessment: No adverse effect has been observed in acute

toxicity tests.

Moxidectin:

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017 Print Date 01/26/2017

: LD50 (Rat): 106 mg/kg Acute oral toxicity

Assessment: Toxic if swallowed.

: LC50 (Rat): 4.1 mg/l Acute inhalation toxicity

Exposure time: 4 h

Method: Calculation method Assessment: Harmful if inhaled.

: LD50 (Rabbit): > 2,000 mg/kg Acute dermal toxicity

Acute toxicity (other routes of : LD50 (Rat): 394 mg/kg

administration)

Application Route: intraperitoneal

LD50 (Rat): > 640 mg/kg

Application Route: subcutaneous

Ethanol:

: LD50 (Rat): 10,470 mg/kg Acute oral toxicity

Method: OECD 401

Assessment: No adverse effect has been observed in acute

toxicity tests.

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l, ca. 65360 ppm

> Exposure time: 4 h Method: OECD 403

Assessment: The substance or mixture has no acute

inhalation toxicity

LD50 (Rabbit): 15,800 mg/kg Acute dermal toxicity

Assessment: No adverse effect has been observed in acute

toxicity tests.

Moxidectin:

Acute oral toxicity : LD50 (Rat): 106 mg/kg

Assessment: Toxic if swallowed.

Acute inhalation toxicity : LC50 (Rat): 4.1 mg/l

Exposure time: 4 h

Method: Calculation method Assessment: Harmful if inhaled.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Acute toxicity (other routes of : LD50 (Rat): 394 mg/kg

administration)

Application Route: intraperitoneal

LD50 (Rat): > 640 mg/kg

Application Route: subcutaneous

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017



Skin corrosion/irritation

Components:

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Moxidectin:

Result: Moderate skin irritation

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Moxidectin:

Result: Moderate skin irritation

Serious eye damage/eye irritation

Components:

Ethanol:

Species: Rabbit Result: Eye irritation Method: OECD 405

Moxidectin:

Result: Moderate eye irritation

Ethanol:

Species: Rabbit Result: Eye irritation Method: OECD 405

Moxidectin:

Result: Moderate eye irritation

Respiratory or skin sensitisation

Components:

Ethanol:

Test Type: Skin sensitisation

Species: Guinea pig

Method: Local lymph node test (LLNA) Result: Does not cause skin sensitisation.

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017



Assessment: An acute toxic effect is not expected.

Moxidectin:

Assessment: Toxic if swallowed., Harmful if inhaled.

Ethanol:

Test Type: Skin sensitisation

Species: Guinea pig

Method: Local lymph node test (LLNA) Result: Does not cause skin sensitisation.

Assessment: An acute toxic effect is not expected.

Moxidectin:

Assessment: Toxic if swallowed., Harmful if inhaled.

Germ cell mutagenicity

Components:

Ethanol:

Genotoxicity in vitro : Test Type: Ames test

Species: Salmonella typhimurium

Method: OECD 471 Result: negative

: Test Type: Mouse lymphoma assay

Method: OECD 476 Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vivo

Species: Mouse Method: OECD 478 Result: ambiguous

Test Type: Micronucleus test

Species: Mouse Method: OECD 474 Result: negative

Ethanol:

Genotoxicity in vitro : Test Type: Ames test

Species: Salmonella typhimurium

Method: OECD 471 Result: negative

Test Type: Mouse lymphoma assay

Method: OECD 476 Result: negative

Page 10 of 16

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017

122000009740 Print Date 01/26/2017

Genotoxicity in vivo : Test Type: Chromosome aberration test in vivo

Species: Mouse Method: OECD 478 Result: ambiguous

Test Type: Micronucleus test

Species: Mouse Method: OECD 474 Result: negative

Carcinogenicity

IARC Group 1: Carcinogenic to humans

Ethanol 64-17-5

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.

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.

Components:

Ethanol:

Repeated dose toxicity -

Assessment

: An acute toxic effect is not expected.

Moxidectin:

Repeated dose toxicity -

Assessment

: Toxic if swallowed., Harmful if inhaled.

Ethanol:

Repeated dose toxicity -

Assessment

: An acute toxic effect is not expected.

Moxidectin:

Repeated dose toxicity -

: Toxic if swallowed., Harmful if inhaled.

Assessment

Further information

Components:

Ethanol:

Remarks: Breathing of the fumes may lead to narcotic symptoms.

Remarks: If inhaled:

Page 11 of 16

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017



headaches Vomiting Nausea

Remarks: After absorption of large quantities

hypotension coma

Unconsciousness respiratory paralysis

Ethanol:

Remarks: Breathing of the fumes may lead to narcotic symptoms.

Remarks: If inhaled:

headaches Vomiting Nausea

Remarks: After absorption of large quantities

hypotension coma

Unconsciousness respiratory paralysis

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l

Exposure time: 48 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 9,268 - 14,221 mg/l

Toxicity to algae : Toxic limit concentration (Scenedesmus quadricauda (Green

algae)): 5,000 mg/l

: Toxic limit concentration (Pseudomonas putida): 6,500 mg/l Toxicity to bacteria

Ecotoxicology Assessment

Acute aquatic toxicity : slightly water endangering

Moxidectin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,16 μg/l

Test Type: Acute Fish toxicity

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.00003 mg/l

Page 12 of 16

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017 Print Date 01/26/2017

aquatic invertebrates

Toxicity to algae : EC50 (Selenastrum Capricornutum (Green algae)): 0.087 mg/l

M-Factor (Acute aquatic

toxicity)

: 10,000

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Ethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l

Exposure time: 48 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 9,268 - 14,221 mg/l

: Toxic limit concentration (Scenedesmus quadricauda (Green Toxicity to algae

algae)): 5,000 mg/l

: Toxic limit concentration (Pseudomonas putida): 6,500 mg/l Toxicity to bacteria

Ecotoxicology Assessment

Acute aquatic toxicity : slightly water endangering

Moxidectin:

: LC50 (Oncorhynchus mykiss (rainbow trout)): 0,16 μg/l Toxicity to fish

Test Type: Acute Fish toxicity

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.00003 mg/l

: EC50 (Selenastrum Capricornutum (Green algae)): 0.087 mg/l Toxicity to algae

M-Factor (Acute aquatic

toxicity)

: 10,000

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

Ethanol:

Cydectin Injection solution 1%

Version 1.0 Revision Date 01/26/2017 Print Date 01/26/2017

Biodegradability : Result: rapidly biodegradable

Moxidectin:

Stability in water : Degradation half life: 180 d

Ethanol:

Biodegradability : Result: rapidly biodegradable

Moxidectin:

Stability in water : Degradation half life: 180 d

Bioaccumulative potential

Components:

Ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: -0.320

Ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: -0.320

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological

information

: Do not allow to enter surface waters or groundwater.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If discarded in its purchased form, this product would not be a

hazardous waste either by listing or by characteristic.

However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Cydectin Injection solution 1%





14. TRANSPORT INFORMATION

Please note that limited quantities, consumer commodity regulations or other exemptions may apply.

Land transport (CFR)

Proper shipping name: ETHANOL SOLUTION

Hazard Class or Division: 3
UN/NA Number 1170
Packaging group III

Hazard Label(s): Flammable Liquid

15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

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.

US State Regulations

Massachusetts Right To Know

Ethanol 64-17-5 20 - 30 %

Pennsylvania Right To Know

Propane-1,2-diol 57-55-6 50 - 70 % Ethanol 64-17-5 20 - 30 %

New Jersey Right To Know

Propane-1,2-diol 57-55-6 50 - 70 % Ethanol 64-17-5 20 - 30 %

New York City Hazardous Substances

Ethanol

Ethanol 64-17-5 20 - 30 %

California Prop. 65 WARNING! This product contains a chemical known to the

State of California to cause cancer. 64-17-5

WARNING: This product contains a chemical known to the

Page 15 of 16

Cydectin Injection solution 1%





State of California to cause birth defects or other reproductive harm.

Ethanol

64-17-5

California Permissible Exposure Limits for Chemical Contaminants

Ethanol 64-17-5

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Full text of H-Statements mentioned in chapters 2 and 3

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed. H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn

child.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.