## **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.

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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

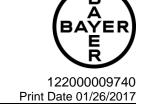
CAS-No.: 64-17-5 CAS name: Ethanol

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

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

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#### **GHS Classification:**



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)

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**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

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

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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.

Protective measures No special safety precautions are required during handling of

> 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.

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Water solubility: No statements available. No statements available. Solubility(ies): No statements available. pH: Corrosive to metal: 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:**

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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:

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

Assessment: Toxic if swallowed.

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

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:

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

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

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### 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.

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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

## **Cydectin Injection solution 1%**

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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:

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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

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

algae)): 5,000 mg/l

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

**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

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

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aquatic invertebrates

: 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.

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

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

**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:

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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)

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#### 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.

64-17-5

**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.

WARNING: This product contains a chemical known to the

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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.