# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078431764

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078377246

# Boehringer Ingelheim

# SAFETY DATA SHEET

# 1. Identification

Product identifier Ocu-guard® MB-1

Other means of identification

Product code APHIS Code 2772.00, Family Code - 052

Recommended use Recommended for use in prevention and control of pinkeye (infectious bovine kertoconjunctivitis),

caused by Moraxella bovis, in healthy cattle.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** Boehringer Ingelheim Vetmedica, Inc.

Address 2621 North Belt Hwy

St. Joseph, MO 64506-2002

Transportation emergency For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or

Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

**Medical Emergency** 

(24HR):

(866)638-2226

Non-Emergency calls: (800) 821-7467

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

Carcinogenicity Category 1A

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May cause an allergic skin reaction. May cause cancer.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

**Storage** Store away from incompatible materials. Keep at a temperature between 2 - 7°C Do not freeze.

Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name | CAS number | %          |
|---------------|------------|------------|
| *Formaldehyde | 50-00-0    | ≤ 0.74 g/L |

Ocu-guard® MB-1 SDS US

Moraxella bovis - deactivated Proprietary

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments** 

\* Used to inactivate virus and subsequently removed from solution. Concentration represents maximum remaining amount by percent weight which is below USDA allowable limits.

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

IngestionRinse mouth. Get medical attention if symptoms occur.Most importantDirect contact with eyes may cause temporary irritation.

symptoms/effects, acute and delayed

uelayeu

**Indication of immediate** Not for human use. For use in animals only.

medical attention and special treatment needed

General information

Persons developing anaphylactic (life-threatening) reactions, such as difficulty in breathing or unconsciousness, must receive immediate medical attention. If anaphylactoid reactions occur, epinephrine may be used as an antidote.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Observe good industrial hygiene practices.

Store in original tightly closed container. Keep at a temperature between 2 - 7°C (33 - 45° F). Store away from foodstuffs. Protect from direct sunlight. Protect from freezing. Store away from incompatible materials, see Section 10 of the SDS.

Ocu-guard® MB-1 SDS US

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

| Components                    | Type            | Value     |  |
|-------------------------------|-----------------|-----------|--|
| *Formaldehyde (CAS 50-00-0)   | STEL            | 2 ppm     |  |
| ,                             | TWA             | 0.75 ppm  |  |
| US. ACGIH Threshold Limit Va  | lues            |           |  |
| Components                    | Туре            | Value     |  |
| *Formaldehyde (CAS 50-00-0)   | STEL            | 0.3 ppm   |  |
| ,                             | TWA             | 0.1 ppm   |  |
| US. NIOSH: Pocket Guide to CI | hemical Hazards |           |  |
| Components                    | Туре            | Value     |  |
| *Formaldehyde (CAS 50-00-0)   | Ceiling         | 0.1 ppm   |  |
| •                             | TWA             | 0.016 ppm |  |

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

3/7

# 9. Physical and chemical properties

Appearance Opaque liquid.

Physical state Liquid.

Form Chemically inactivated organism cultures in liquid media packaged in 20 or 100 mL polyethylene

containers.

Color Opaque.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range

Flash point Not available.

Evaporation rate Not available.
Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper Not available.

(%)

Ocu-guard® MB-1 SDS US

928297 Version #: 02 Revision date: 12-February-2018 Issue date: 18-October-2017

Not available.

Not available. Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient** 

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Skin contact May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

May cause discomfort if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics May cause an allergic skin reaction. Dermatitis. Rash. Ingestion of a large quantity may cause

vomiting, nausea, dizziness, drowsiness and other systemic effects.

#### Information on toxicological effects

May cause allergic respiratory and skin reactions. **Acute toxicity** 

| Components                  | Species | Test Results |
|-----------------------------|---------|--------------|
| *Formaldehyde (CAS 50-00-0) |         |              |

Formaldehyde (CAS 50-00-0)

Acute **Dermal** 

LD50 Rat 270 mg/kg

Inhalation

Rat LC50 0.578 mg/l, 4 hours

Oral

LD50 Rat 100 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

FORMALDEHYDE (CAS 50-00-0) Dermal sensitization Respiratory sensitization

Respiratory sensitization Not expected to result in respiratory sensitization.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Ocu-guard® MB-1 SDS US

928297 Version #: 02 Issue date: 18-October-2017 Revision date: 12-February-2018

# Carcinogenicity May cause cancer. Contains a component that is listed as an IARC 1 (Known Human

Carcinogen), a NTP Known Carcinogen and an ACGIH A2 (Suspected Human Carcinogen). In

vaccines, the chronic exposure potential is negligible.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

\*Formaldehyde (CAS 50-00-0) 1 Carcinogenic to humans.

NTP Report on Carcinogens

\*Formaldehyde (CAS 50-00-0) Known To Be Human Carcinogen.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

\*Formaldehyde (CAS 50-00-0) Cancer

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** Possible hyper sensitization (development of abnormal sensitivity).

#### 12. Ecological information

**Ecotoxicity**The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

\*Formaldehyde (CAS 50-00-0)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia pulex) 4.3 - 7.8 mg/l, 48 hours

Fish LC50 Striped bass (Morone saxatilis) 10.302 - 16.743 mg/l, 96 hours

0.35

Persistence and degradability No data is available on the

Bioaccumulative potential

No data is available on the degradability of this product.

#### Partition coefficient n-octanol / water (log Kow)

\*Formaldehyde (CAS 50-00-0)

Mobility in soil Expected to be slightly to moderately mobile in soil.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

Ocu-guard® MB-1 SDS US

#### 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

Therefore, it can only be used for TSCA exempt purposes such as R&D or veterinary use. FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON ORDER OF LICENSED

VETERINARIANS.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

\*Formaldehyde (CAS 50-00-0) Listed.

SARA 304 Emergency release notification

\*Formaldehyde (CAS 50-00-0) 100 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

\*Formaldehyde (CAS 50-00-0)

Skin sensitization Respiratory sensitization

Eve irritation Skin irritation

respiratory tract irritation

Acute toxicity Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

| quantity planning quantity planning quantity, planning quantity, (pounds) lower value upper value (pounds) (pounds) | Chemical name | CAS number | Reportable quantity (pounds) | Threshold<br>planning quantity<br>(pounds) |  |  |  |
|---|---------------|------------|------------------------------|--|--|--|--|
|---|---------------|------------|------------------------------|--|--|--|--|

50-00-0 100 500 \*Formaldehyde Yes

SARA 311/312 Hazardous

chemical

Classified hazard Respiratory or skin sensitization

categories Carcinogenicity

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt.   |
|---------------|------------|------------|
| *Formaldehyde | 50-00-0    | ≤ 0.74 g/L |

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

\*Formaldehyde (CAS 50-00-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

\*Formaldehyde (CAS 50-00-0)

Safe Drinking Water Act Not regulated. (SDWA)

**US** state regulations

**US. Massachusetts RTK - Substance List** 

\*Formaldehyde (CAS 50-00-0)

US. New Jersey Worker and Community Right-to-Know Act

\*Formaldehyde (CAS 50-00-0)

US. Pennsylvania Worker and Community Right-to-Know Law

\*Formaldehyde (CAS 50-00-0)

**US. Rhode Island RTK** 

\*Formaldehyde (CAS 50-00-0)

**California Proposition 65** 



WARNING: This product can expose you to \*Formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

6/7

Ocu-guard® MB-1 SDS US

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

\*Formaldehyde (CAS 50-00-0) Listed: January 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

\*Formaldehyde (CAS 50-00-0)

#### **International Inventories**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand          | New Zealand Inventory  | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan               | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
|                      |  |                        |

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

Issue date 18-October-2017

Revision date 12-February-2018

Version # 02

United States & Puerto Rico

Further information HMIS® is a registered trade and service mark of the American Coatings Association (ACA).

**HMIS® ratings** Health: 2\*

Flammability: 0 Physical hazard: 0

NFPA ratings



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Ocu-guard® MB-1 SDS US

928297 Version #: 02 Revision date: 12-February-2018 Issue date: 18-October-2017

Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).