# SAFETY DATA SHEET



1. Identification

Product identifier Bronchicine® CAe

Other means of identification

Synonyms Vanguard® B Injectable \* Bronchicine CAe \* Bordetella Bronchiseptica bacterin Cellular Antigen

Extract

Recommended use Veterinary vaccine
Recommended restrictions Not for human use
Manufacturer/Importer/Supplier/Distributor information

Company Name (USA) Zoetis Inc.

10 Sylvan Way

Parsippany, New Jersey 07054 (USA)

**Rocky Mountain Poison &** 

**Drug Safety** 

1-866-531-8896

**Product Support/Technical** 

**Services** 

1-888-963-8471

**Emergency telephone** 

numbers

CHEMTREC (24 hours): 1-800-424-9300

International CHEMTREC (24 hours): +1-703-527-3887

Company Name (CA) Zoetis Canada Inc.

16740 Trans-Canada Highway Kirkland, Quebec, H9H 4M7

**Emergency telephone** 

number

International CHEMTREC (24 hours): +1-703-527-3887

Contact E-Mail productsupport@zoetis.com

**Product Support** 1-800-461-0917

All Safety Data Sheets are available via our Zoetis Canada website at

https://www.zoetis.ca/sds/sds.aspx

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Supplemental information Direct contact with eyes may cause temporary irritation. In the event of accidental injection, an

allergic reaction may occur.

Other hazards None known.

#### 3. Composition/information on ingredients

**Mixtures** 

Material name: Bronchicine® CAe

| Chemical name             | Common name and synonyms | CAS number | %  |
|---------------------------|--------------------------|------------|----|
| Bordetella bronchiseptica |                          | 68583-00-6 | *  |
| Merthiolate (as mercury)  |                          | 54-64-8    | ## |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** 

Other components below reportable levels

\* Non-hazardous Ingredients

## Trace

The exact percentage composition of this mixture has been withheld as a trade secret.

4. First-aid measures

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

**Skin contact** In the case of skin contact, immediately wash the skin with plenty of soap and water. In the event

of accidental self injection or needle stick injury, wash the injury thoroughly with clean running

water. Get medical attention immediately.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove

contact lenses, if present and easy to do.

**Ingestion** Rinse mouth. Call a physician or poison control centre immediately. Only induce vomiting at the

instruction of medical personnel. Never give anything by mouth to an unconsious person.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort. In the event of accidental injection, an allergic reaction may occur. Signs and symptoms might include skin rash, itching, redness or swelling. Respiratory reactions may be characterized by rhinitis, sneezing, scratchy throat, oral mucosal edema, laryngeal mucosal edema, coughing, shortness of breath, wheezing, and chest pain. Asthma like reactions occur

with acute exposures in sensitized patients.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

For personal protection, see section 8 of the SDS. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

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

Specific hazards arising from the chemical

Special protective equipment

During fire, gases hazardous to health may be formed.

and precautions for firefighters

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

equipment/instructions

•

Specific methods
General fire hazards

Fire fighting

No conversal fine on explosion behavior and a

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.

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

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

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.

**Environmental precautions** 

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

#### 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapour. Avoid accidental injection. Wash thoroughly after handling. When using, do not eat, drink or smoke. Wear personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Store in a cool, dry place out of direct sunlight. @ 2 - 7°C (36 - 45°F). Do not freeze. Store in original tightly closed container. Keep away from heat, sparks and open flame.

#### 8. Exposure controls/personal protection

| Occupational exposure limits | Occu | pational | exposure | limits |
|------------------------------|------|----------|----------|--------|
|------------------------------|------|----------|----------|--------|

| 116 | ACCIL | <b>Threshold</b> | Limit | Values |
|-----|-------|------------------|-------|--------|
| uə. | ACGIR | Inresnoia        | Limit | values |

| Components                             | Туре | Value      |
|--|------|------------|
| Merthiolate (as mercury) (CAS 54-64-8) | STEL | 0.03 mg/m3 |

# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)ComponentsTypeValueMerthiolate (as mercury)STEL0.03 mg/m3(CAS 54-64-8)

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components                                | Туре    | Value      |  |
|---|---------|------------|--|
| Merthiolate (as mercury)<br>(CAS 54-64-8) | Ceiling | 0.1 mg/m3  |  |
|   | STEL    | 0.03 mg/m3 |  |

# Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components                                | Туре | Value      |  |
|---|------|------------|--|
| Merthiolate (as mercury)<br>(CAS 54-64-8) | STEL | 0.03 mg/m3 |  |

# Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs

| Components                                | Type | Value      |
|---|------|------------|
| Merthiolate (as mercury)<br>(CAS 54-64-8) | STEL | 0.03 mg/m3 |

# Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                                | Type | Value      |
|---|------|------------|
| Merthiolate (as mercury)<br>(CAS 54-64-8) | STEL | 0.03 mg/m3 |

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components                                | Туре | Value      |
|---|------|------------|
| Merthiolate (as mercury)<br>(CAS 54-64-8) | STEL | 0.03 mg/m3 |

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

Control banding approach Not available.

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.

General ventilation normally adequate.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** If contact is likely, safety glasses with side shields are recommended.

Skin protection

**Hand protection** Wear impervious gloves if skin contact is possible.

Other Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable

coveralls, etc.) in both production and laboratory areas.

Respiratory protection No personal respiratory protective equipment normally required. In case of insufficient ventilation,

wear suitable respiratory equipment. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to

below the OEL.

Thermal hazards Not applicable.

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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.

#### 9. Physical and chemical properties

Appearance Liquid solution

Physical state
Form
Liquid.
Colour
Not available.
Odour threshold
PH
Not available.
Not available.
Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling >100 °C (>212 °F)

range

Flash point Non-flammable
Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper Not available.

(%)

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive.

Oxidising properties Not oxidising.

Specific gravity > 0.8 - < 1.2

# 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. Sunlight. Store at 2-7°C. Prolonged exposure to higher

temperatures may adversely affect potency. Do not freeze.

Incompatible materials Strong oxidising agents. This material can be denatured or inactivated by a variety of organic

solvents, salts or heavy metals.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Under normal conditions of intended use, this material is not expected to be an

inhalation hazard.

**Skin contact** Prolonged skin contact may cause temporary irritation. **Eye contact** Direct contact with eyes may cause temporary irritation.

Material name: Bronchicine® CAe

Eye contact

Merthiolate (as mercury) Species: Rabbit

Severity: Mild

May be harmful if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort. In the event of accidental injection, an allergic reaction may occur. Signs and symptoms might include skin rash, itching, redness or swelling. Respiratory reactions may be characterized by rhinitis, sneezing, scratchy throat, oral mucosal edema, laryngeal mucosal edema, coughing, shortness of breath, wheezing, and chest pain. Asthma like reactions occur with acute exposures in sensitized patients.

Information on toxicological effects

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained

personnel.

Components **Species Test Results** 

Merthiolate (as mercury) (CAS 54-64-8)

**Acute** 

Oral

LD50 Rat 75 mg/kg

**Subcutaneous** 

LD50 Rat 98 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Eve contact

Merthiolate (as mercury) Species: Rabbit

Severity: Mild

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met. In the event of accidental Respiratory sensitisation

injection, an allergic reaction may occur.

Based on available data, the classification criteria are not met. In the event of accidental injection, Skin sensitisation

an allergic reaction may occur.

Due to partial or complete lack of data the classification is not possible. No data available to Germ cell mutagenicity

indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Due to partial or complete lack of data the classification is not possible. This product is Carcinogenicity

not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Based on available data, the classification criteria are not met. This product is not expected to Reproductive toxicity

cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Not an aspiration hazard. Aspiration hazard

Allergic reactions are possible. The antigens included in this product are non-infectious. **Further information** 

All have been prepared from killed or inactivated preparations of microorganisms.

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.

Avoid release to the environment. No data available for this product.

Persistence and degradability

Bioaccumulative potential

No data available for this product. No data available for this product.

Mobility 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.

Material name: Bronchicine® CAe SDS CANADA

#### 13. Disposal considerations

**Disposal instructions**Avoid release to the environment. Do not discharge into drains, water courses or onto the ground.

Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations.

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. This product contains trace quantities of mercury, releases to the environment

should be avoided.

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.

Contaminated packaging

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

emptied.

#### 14. Transport information

**TDG** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

#### 15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated.

#### Export Control List (CEPA 1999, Schedule 3)

Merthiolate (as mercury) (CAS 54-64-8)

Substance subject to notification or consent.

#### **Greenhouse Gases**

Not listed.

#### Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Merthiolate (as mercury) (CAS 54-64-8)

**Precursor Control Regulations** 

Not regulated.

#### International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Merthiolate (as mercury) (CAS 54-64-8) Pesticide

Kyoto Protocol

Not applicable.

# **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### International Inventories

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Industrial Chemicals (AICIS)       | No                     |
| Canada               | Domestic Substances List (DSL)                             | No                     |
| Canada               | Non-Domestic Substances List (NDSL)                        | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC) | No                     |

Material name: Bronchicine® CAe SDS CANADA

| Country(s) or region | Inventory name                                     | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Europe               | European Inventory of Existing Commercial Chemical | No                     |
|                      | Substances (EINECS)                                |                        |

Europe European List of Notified Chemical Substances (ELINCS) No Inventory of Existing and New Chemical Substances (ENCS) No Japan

Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) No Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico No

#### 16. Other information

**Philippines** 

17-April-2017 Issue date 22-February-2023 **Revision date** 

Version No.

Disclaimer Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while

it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently

available.

This document has undergone significant changes and should be reviewed in its entirety. **Revision information** 

Material name: Bronchicine® CAe SDS CANADA

No

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