

## 1. Identification

|   |   |
|---|---|
| <b>Product identifier</b>                                     | <b>Newcastle-Bronchitis Vaccine (B1 Type, B1 Strain, Mass. and Conn. Types, Live Virus)</b>   |
| <b>Other means of identification</b>                          |   |
| <b>Synonyms</b>   | Newcastle-Bronchitis Vaccine, B1 Type, B1 Strain, Massachusetts and Connecticut Types, Live Virus * Newcastle B1 + Bronchitis Conn Mass |
| <b>Recommended use</b>  | Veterinary vaccine  |
| <b>Recommended restrictions</b>                               | Not for human use   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |
| <b>Company Name (USA)</b>                                     | Zoetis Inc.<br>10 Sylvan Way<br>Parsippany, New Jersey 07054 (USA)  |
| <b>Rocky Mountain Poison and Drug Center</b>                  | 1-866-531-8896  |
| <b>Product Support/Technical Services</b>                     | 1-800-366-5288  |
| <b>Emergency telephone numbers</b>                            | CHEMTREC (24 hours): 1-800-424-9300<br>International CHEMTREC (24 hours): +1-703-527-3887   |
| <b>Company Name (CA)</b>                                      | Zoetis Canada Inc.<br>16740 Trans-Canada Highway<br>Kirkland, Quebec, H9H 4M7   |
| <b>Emergency telephone number</b>                             | International CHEMTREC (24 hours): +1-703-527-3887  |
| <b>Contact E-Mail</b>   | productsupport@zoetis.com   |
| <b>Product Support</b>  | 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(s) identification

|                              |                 |
|------------------------------|-----------------|
| <b>Physical hazards</b>      | Not classified. |
| <b>Health hazards</b>        | Not classified. |
| <b>Environmental hazards</b> | Not classified. |

### Label elements

|                                |  |
|--------------------------------|--|
| <b>Hazard symbol</b>           | None.  |
| <b>Signal word</b>             | None.  |
| <b>Hazard statement</b>        | The mixture does not meet the criteria for classification.                     |
| <b>Precautionary statement</b> |  |
| <b>Prevention</b>              | Observe good industrial hygiene practices.                                     |
| <b>Response</b>                | Wash hands after handling.   |
| <b>Storage</b>                 | Store away from incompatible materials.  |
| <b>Disposal</b>                | Dispose of waste and residues in accordance with local authority requirements. |

**Other hazards** None known.

**Supplemental information** May cause hypersensitivity reactions in susceptible individuals. Direct contact with eyes may cause temporary irritation. May cause skin irritation.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                                      | Common name and synonyms | CAS number | %  |
|--|--------------------------|------------|----|
| Avian Infectious Bronchitis Connecticut Strain     |                          | NA         | *  |
| Avian Infectious Bronchitis Massachusetts Serotype |                          | NA         | *  |
| Gentamicin   |                          | 1403-66-3  | ## |
| Newcastle B1 Type, B1 Strain                       |                          | NA         | *  |

**Composition comments**      ## Trace  
\* Non-hazardous Ingredients

### 4. First-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist. For breathing difficulties, oxygen may be necessary.  |
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops and persists.  |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.   |
| <b>Ingestion</b>  | Rinse mouth. Call a physician or poison control centre immediately. Do not induce vomiting without advice from poison control center. Never give anything by mouth to an unconscious person.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. Allergic reactions are possible. Dermatitis. Rash. Coughing. |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.  |
| <b>General information</b>  | 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

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water spray. Alcohol resistant foam. Powder. Carbon dioxide (CO <sub>2</sub> ).               |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                          | Use water spray to cool unopened containers.  |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Ensure adequate ventilation. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid the generation of dusts during clean-up. Avoid inhalation of dust from the spilled material. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.                                       |
| <b>Methods and materials for containment and cleaning up</b>               | Ensure adequate ventilation. Avoid release to the environment.<br><br>Large Spills: Stop the flow of material, if this is without risk. Remove sources of ignition. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.  |

## 7. Handling and storage

**Precautions for safe handling** Use only in well-ventilated areas. Avoid dust formation. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment. Use care in handling/storage.

**Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. @ 2 - 7°C (36 - 45°F). Store in original tightly closed container. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

## 8. Exposure controls/personal protection

**Occupational exposure limits** No exposure limits noted for ingredient(s).

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

**Control banding approach** Gentamicin: Zoetis OEB 2 (control exposure to the range of 100ug/m3 to < 1000ug/m3)

**Appropriate engineering controls** Keep air contamination levels below the exposure limits or within the OEB range listed above in this section. General room ventilation is adequate unless the process generates dust, mist or aerosols.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear eye/face protection. Wear safety goggles if eye contact is possible (face shield recommended if splashing is possible).

#### Skin protection

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

#### 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. Whenever excessive air contamination (dust, mist, vapor) is generated, respiratory protection, with appropriate protection factors, should be used to minimize exposure. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.

#### Thermal hazards

Not applicable.

**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** Powder.

**Physical state** Solid.

**Form** Solid.

**Colour** Pale yellow - Red White.

**Odour** Not available.

**Odour threshold** Not available.

**pH** 6 - 8

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

|  |  |
|--|--|
| <b>Vapour pressure</b>                         | Not available.                             |
| <b>Vapour density</b>                          | Not available.                             |
| <b>Relative density</b>                        | Not available.                             |
| <b>Solubility(ies)</b>                         |  |
| <b>Solubility (water)</b>                      | Soluble                                    |
| <b>Solubility (other)</b>                      | Methanol, n-octanol, Acetone, Diethylether |
| <b>Partition coefficient (n-octanol/water)</b> | Not available.                             |
| <b>Auto-ignition temperature</b>               | Not available.                             |
| <b>Decomposition temperature</b>               | Not available.                             |
| <b>Viscosity</b>                               | Not available.                             |
| <b>Other information</b>                       |  |
| <b>Explosive properties</b>                    | Not explosive.                             |
| <b>Oxidising properties</b>                    | Not oxidising.                             |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Contact with incompatible materials. High temperatures. Avoid conditions which create dust. Keep away from heat, spark, open flames and other sources of ignition. |
| <b>Incompatible materials</b>             | Strong oxidising agents.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.   |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Under normal conditions of intended use, this material is not expected to be an inhalation hazard.  |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions. May cause skin irritation. |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.  |
| Gentamicin          | Species: Rabbit<br>Severity: Non-irritating   |

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

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. Allergic reactions are possible. Dermatitis. Rash. Coughing.

### Information on toxicological effects

**Acute toxicity** May be harmful if swallowed.

| Components                 | Species | Test results |
|----------------------------|---------|--------------|
| Gentamicin (CAS 1403-66-3) |         |              |
| <b>Acute</b>               |         |              |
| <b>Intramuscular</b>       |         |              |
| LD50                       | Mouse   | 167 mg/kg    |
|                            | Rat     | 463 mg/kg    |
| <b>Oral</b>                |         |              |
| LD50                       | Rat     | 6600 mg/kg   |
| <b>Subcutaneous</b>        |         |              |
| LD50                       | Rat     | 710 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.

**Eye contact**  
Gentamicin

Species: Rabbit  
Severity: Non-irritating

## Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitizer.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

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

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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

**Developmental effects**  
Gentamicin

75 mg/kg/day Embryo / Fetal Development, Developmental toxicity  
Result: LOAEL  
Species: Rat  
Organ: Intramuscular

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Further information** The antigens included in this product are non-infectious. All have been prepared from attenuated preparations of microorganisms. May cause hypersensitivity reactions in susceptible individuals.

## 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.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**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** Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Do not contaminate ponds, waterways or ditches with chemical or used container. 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** None known.

**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** 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 applicable.**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)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**International regulations****Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**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 Chemical Substances (AICS)                     | No                     |
| Canada                      | Domestic Substances List (DSL)   | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | No                     |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | No                     |
| New Zealand                 | New Zealand Inventory  | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | No                     |

\*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).

**16. Other information**

**Issue date** 03-June-2017  
**Version No.** 01

**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.

**Revision information**

Product and Company Identification: Synonyms  
Composition / Information on Ingredients: Ingredients