

Revision date: 14-Feb-2014

Version: 3.0

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

Product Identifier

Material Name: Poulvac® Bron GA98

Trade Name: Svnonvms: **Chemical Family:** POULVAC® Bronchitis Vaccine, Georgia Type, Live Virus; AVIMUNE 1B98 Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: Veterinary Vaccine **Restrictions on Use:**

Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com

Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

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

2. HAZARDS IDENTIFICATION

Appearance:

Lyophilized powder

Classification of the Substance or Mixture GHS - Classification Not classified as hazardous

EU Classification:

EU Indication of danger: Not classified

Label Elements Signal Word: Not Classified **Hazard Statements:** Non-hazardous in accordance with international standards for workplace safety.

Other Hazards Short Term: May cause allergic reaction If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate therapy instituted. May cause eye and skin irritation **Australian Hazard Classification** Non-Hazardous Substance. Non-Dangerous Goods. (NOHSC):

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Note:

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

CAS Number	EU	EU Classification	GHS	%
	EINECS/ELINCS		Classification	
	List			
1403-66-3	215-765-8	Not Listed	Not Listed	##
		EINECS/ELINCS List	EINECS/ELINCS List	EINECS/ELINCS Classification

Ingredient	CAS Number	EU EINECS/ELINCS	EU Classification	GHS Classification	%
		List			
Bronchitis, Georgia Type, Live Virus	Not assigned	Not Listed	Not Listed	Not Listed	*

Additional Information:

Trace * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

4. FIRST AID MEASURES

Description of First Aid Measures Eye Contact:	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
Skin Contact:	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
Most Important Symptoms and Effe Symptoms and Effects of Exposure: Medical Conditions Aggravated by Exposure:	ects, Both Acute and Delayed No data available None known
Indication of the Immediate Medica Notes to Physician:	I Attention and Special Treatment Needed None
	5. FIRE-FIGHTING MEASURES
Extinguishing Media:	Extinguish fires with CO2, extinguishing powder, foam, or water.
Special Hazards Arising from the S Hazardous Combustion Products:	ubstance or Mixture Formation of toxic gases is possible during heating or fire.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up Measures for Cleaning / Collecting: Contain the source of the spill if it is safe to do so. Sweep spilled material into an approved container for disposal keeping dust generation to a minimum. Clean contaminated surface thoroughly. Additional Consideration for Large Spills: Contain the source of the spill or leak if it is safe to do so. Prevent discharge to drains. Dike, pump, or use non-combustible material to absorb spill; then place in a labeled container for disposal. Close container and move it to a secure holding area.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Use with adequate ventilation. Avoid generating airborne dust. Avoid breathing dust, vapor or mist. Avoid contact with eyes, skin and clothing. Use appropriate personal protective equipment. Avoid accidental injection. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Specific end use(s): Store as directed by product packaging. No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Gentamicin

Bulgaria OEL - TWA

0.1 mg/m³

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Gentamicin

Zoetis OEB

OEB 2 (control exposure to the range of 100ug/m³ to < 1000ug/m³)

Exposure Controls Engineering Controls:

Engineering controls should be used as the primary means to control exposures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective
Equipment:Refer to applicable national standards and regulations in the selection and use of personal
protective equipment (PPE).Hands:
Eyes:
Skin:Wear impervious gloves if skin contact is possible.
Wear safety glasses or goggles if eye contact is possible.
Impervious protective clothing is recommended if skin contact with drug product is possible and
for bulk processing operations.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Odor: Molecular Formula:	Lyophilized powder No data available. Mixture	Color: Odor Threshold: Molecular Weight:	No data available. No data available. Mixture
Solvent Solubility: Water Solubility: pH: Melting/Freezing Point (°C): Boiling Point (°C): Partition Coefficient: (Method, pH, E No data available Decomposition Temperature (°C):	No data available Insoluble No data available. No data available No data available. ndpoint, Value) No data available.		
Evaporation Rate (Gram/s): Vapor Pressure (kPa): Vapor Density (g/ml): Relative Density: Viscosity:	No data available No data available No data available No data available No data available		
Flammablity: Autoignition Temperature (Solid) (°C): Flammability (Solids): Flash Point (Liquid) (°C): Upper Explosive Limits (Liquid) (% by Vol.): Lower Explosive Limits (Liquid) (% by Vol.):		No data available No data available No data available No data available No data available	

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use.
Possibility of Hazardous Reactions	
Oxidizing Properties:	No data available
Conditions to Avoid:	High temperatures
Incompatible Materials:	As a precautionary measure, keep away from strong oxidizers
Hazardous Decomposition	No data available
Products:	

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information:

Toxicological properties of the formulation have not been fully investigated. The following information is available for the individual ingredients. The antigens included in this product are non-infectious. All have been prepared from attenuated preparations of microorganisms.

Acute Toxicity: (Species, Route, End Point, Dose)

Gentamicin

Rat Oral LD50 6600 mg/kg Rat Subcutaneous LD50 710mg/kg Mouse IM LD50 167 mg/kg Rat IM LD50 463 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

Gentamicin

Eye Irritation Rabbit Non-irritating

Gentamicin

Embryo / Fetal Development	Rat	Intramuscular	75 mg/kg/day	LOAEL	Developmental toxicity
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Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview:	Environmental properties of the formulation have not been investigated. Releases to the environment should be avoided.
Toxicity:	No data available
Persistence and Degradability:	No data available
Bio-accumulative Potential:	No data available
Mobility in Soil:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:Dispose of waste in accordance with all applicable laws and regulations. Member State
specific and Community specific provisions must be considered. 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.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications WHMIS hazard class: None required This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Gentamicin

CERCLA/SARA 313 Emission reportingNot ListedCalifornia Proposition 65Not ListedAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 4for Drugs and Poisons:215-765-8Bronchitis, Georgia Type, Live VirusCERCLA/SARA 313 Emission reportingNot ListedCalifornia Proposition 65Not ListedNot ListedEU EINECS/ELINCS ListNot ListedNot Listed	Ochtannen	
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CERCLA/SARA 313 Emission reportingNot ListedCalifornia Proposition 65Not Listed	EU EINECS/ELINCS List	215-765-8
California Proposition 65 Not Listed	Bronchitis, Georgia Type, Live Virus	
	CERCLA/SARA 313 Emission reporting	Not Listed
EU EINECS/ELINCS List Not Listed	California Proposition 65	Not Listed
	EU EINECS/ELINCS List	Not Listed

16. OTHER INFORMATION

Data Sources:	The data contained in this MSDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.
Reasons for Revision:	Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 8 - Exposure Controls / Personal Protection.
Prepared by:	Toxicology and Hazard Communication Zoetis Global Risk Management

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.

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End of Safety Data Sheet