



Safety Data Sheet According to 91/155 EEC

Printing date 04.03.2009

Revision: 04.03.2009

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** *Circovac*
- **Manufacturer/Supplier:**
Merial SAS
29 Avenue Tony Garnier
69007 Lyon, France
+33-4-72-72-30-00
- **Information in case of emergency:**
CHEMTREC® International: 001 703-527-3887
Reverse charges.

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** *this product is a vaccine (biological) for use in swine*
- **Dangerous components:** *N/A*
- **Vaccine components:**
- **Liquid component contains:** *Inactivated porcine circovirus type 2 (PCV2)*
- **Additional information:**
Other components:
Ester of fatty acids and of polyols (Ph Eur) – CAS number 1338-43-8
Triester of fatty acids and of ethoxylated polyols
Light paraffin oil (CAS number 80042-47-5)
Ester of fatty acids and of ethoxylated polyols (Ph Eur) CAS number 9005-65-56)
Thiomersal (Ph Eur) (CAS number 54-64-8)
Phosphate buffer (made with PE components)

3 Hazards identification

- **Hazard description:** *Not applicable.*
- **Information concerning particular hazards for human and environment:** *Not applicable.*
- **Classification system:**
The classification is according to the latest editions of the EU-criteria, and extended by company and literature data.

4 First-aid measures

- **General information:** *No special measures required.*
- **After inhalation:** *Seek immediate medical advice.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for 15 minutes under running water. If symptoms occur, consult a doctor.*
- **After swallowing:** *Immediately call a doctor.*
- **After self injection** *Immediately wash with water and soap and rinse thoroughly. Get medical attention.*
- **Information for Doctor**
Provide symptomatic treatments, where appropriate.
For more information, call the Merial Emergency Telephone number or your Local Poisons Information Service.

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The following symptoms may occur:

To the physician:

This product contains mineral oil. Even if small amounts have been injected, accidental injection with this product can cause intense swelling, which may, for example, result in ischaemic necrosis and even the loss of a digit. Expert, PROMPT, surgical attention is required and may necessitate early incision and irrigation of the injected area, especially where there is involvement of finger pulp or tendon.

5 Fire-fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the substance, its products of combustion or resulting gases:

Carbon monoxide (CO)

Carbon Dioxide (CO₂)

Combustion of paraffin oil component is possible if involved in fire.

Protective equipment:

Fire fighters should wear self-contained breathing apparatus and full protective equipment.

6 Accidental release measures

Person-related safety precautions: Not required.

Measures for environmental protection: Do not allow product to reach sewage system or any water source.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Additional information: No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling:

Handle with care. Avoid jolting, friction and impact.

Store in cool, dry place in tightly closed containers.

People vaccinating for the first time must be adequately trained in the technical aspects of the work and the risks of accidental injection.

Vaccination should always be carried out in well-lit areas.

Ensure the method of restraint handling and administration, e.g., by the use of short or guarded needles minimizes the risks of accidental injection.

Information about fire - and explosion protection of large quantities: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original container.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Store in a cool, dry, well ventilated place.

Recommended storage temperature:

Store between 2-8°C, protected from light.

Do not freeze.

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8 Exposure controls/personal protection

- *Additional information about design of technical facilities: No further data; see item 7.*
- *Ingredients with limit values that require monitoring at the workplace:*
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- *Personal protective equipment:*
- *General protective and hygienic measures:*
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or inhale.
Storing food in the working area is prohibited.
- *Respiratory protection: Not required when this formulation is used in accordance with its directions.*
- *Protection of hands:*



Protective gloves

- *Eye protection: Safety glasses*
- *Body protection: Not required under normal conditions of use.*

9 Physical and chemical properties· *General Information*

<i>Form:</i>	<i>Two vials of liquid.</i>
<i>Colour:</i>	<i>suspension vial : opalescent ; emulsion vial : white</i>
<i>Odour:</i>	<i>Odourless</i>

· *Change in condition*

<i>Melting point/Melting range:</i>	<i>Undetermined.</i>
<i>Boiling point/Boiling range:</i>	<i>Undetermined</i>

<i>Flash point:</i>	<i>Not applicable</i>
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<i>Self-igniting:</i>	<i>Product is not self-igniting.</i>
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<i>Danger of explosion:</i>	<i>Product does not present an explosion hazard.</i>
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<i>Density:</i>	<i>Not determined.</i>
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<i>Solubility in / Miscibility with water:</i>	<i>Miscible.</i>
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<i>Organic solvents:</i>	<i>0,0 %</i>
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10 Stability and reactivity

- *Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.*
- *Dangerous reactions: No dangerous reactions known.*
- *Dangerous decomposition products: No dangerous decomposition products known.*

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11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation:**
Contact your local office of the Environment Agency or a licensed waste disposal contractor for advice on disposal of unused material, spillage or waste contaminated with this product.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** To clean spills or contamination use 1:30 dilution of household bleach.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulatory information

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

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- *Safety phrases:*
29 Do not empty into drains.
- *Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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MATERIAL SAFETY DATA SHEET

IDENTITY			
4-star Autogenous A. Suis			
Section I			
Manufacturer's Name Novartis Animal Health US, Inc.		Emergency Telephone Number 800-454-3424	
Address (Number, Street, City, State, and Zip Code) 1447 140th Street Larchwood, IA 51241-9778		Telephone Number for Information 800-843-3386	
		Date Prepared September 17, 2013	Revised Date:
		Signature of Preparer (optional)	
Section II - Hazardous Ingredients/Identity Information			
Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other limits Recommended % (optional)
Thimerosal (merthiolate)	0.01 mg of Hg/ m ³		≤ 0.01
Section III - Physical/Chemical Characteristics			
Boiling Point	NA	Specific Gravity (H ₂ O = 1)	NA
Vapor Pressure (mm Hg.)	NA	Melting Point	NA
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	NA
Solubility in Water Yes			
Appearance and Odor Opaque brown yellowish liquid			
Section IV - Fire and Explosion Hazard Data			
Flash Point (Method Used) NA	Flammable Limits NA	LEL NA	UEL NA
Extinguishing Media Dry chemical or carbon dioxide			
Special Fire Fighting Procedures Wear protective clothing and a self contained breathing apparatus as appropriate for the surrounding fire.			
Unusual Fire and Explosion Hazards None			

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid Thimerosal will decompose with heat.
	Stable	X	
Incompatibility (Materials to Avoid)			
None			
Hazardous Decomposition or Byproducts Mercury, carbon monoxide, or carbon dioxide			
Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes
Health Hazards (Acute and Chronic)			
The product may be irritating in the case of skin or eye contact. While thimerosal is a toxic compound, it is only present in very small quantities in this product. (See Section II)			
Carcinogenicity: No NPT: No IARC Monographs: No OSHA Regulated: No			
Emergency and First Aid Procedures In case of skin or eye contact, flush with plenty of water. If the product is ingested, wash the mouth out with water and call a physician. In case of accidental injection, wash the puncture site and see a physician immediately.			
Section VII - Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material Is Released or Spilled			
Clean up the spill with absorbent material, and afterwards, wash the site thoroughly with water.			
Waste Disposal Method			
This product contains trace quantities of mercury per Section II above. If discarded in its manufactured form, this product is a hazardous waste under RCRA (U.S.) and CEPA (Canada). It is the responsibility of the user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a solid or hazardous waste. Always dispose of this product in accordance with all applicable federal, state and local environmental regulations.			
Precautions to Be Taken in Handling and Storing			
Refrigerate the product (2° to 7° C) {35° to 45° F}. Keep the container closed when stored, and shake well before using.			
Other Precautions N/A			
Section VIII - Control Measures			
Respiratory Protection (Specify Type)			
An approved cartridge respirator for large spills			
Ventilation	Local Exhaust	No	Special NA
	Mechanical (General)	Yes	Other NA
Protective Gloves		Eye Protection	
Vinyl or nitrile		Goggles	
Other Protective Clothing or Equipment			
NA			
Work/Hygienic Practices			
Take precautions to prevent accidental injections.			

Section IX - Regulatory Information	
Transportation:	UN-Number: FREE (under all transportation regulations) Class: This product is <u>not regulated as a dangerous good</u> when offered for transportation according to US DOT, EUADR, ICAO/IATA, IMDG or ADR/RID regulations.
Note: This product contains thimerosal (< 0.01%)	Thimerosal is a mercury compound which is subject to CWA, SDWA, CAA, RCRA, CERCLA, SARA (Secs. 312 and 313), DOT and 29 CFR 1910.1200 regulations.

**

This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. Accordingly, no guarantee expressed or implied is made by Novartis Animal Vaccines, Inc. as to the results to be obtained based upon your use of the information, nor does Novartis Animal Vaccines, Inc. assume any liability arising out of your use of the information.



MATERIAL SAFETY DATA SHEET

IDENTITY			
4-star Autogenous A. Suis			
Section I			
Manufacturer's Name Novartis Animal Health US, Inc.		Emergency Telephone Number 800-454-3424	
Address (Number, Street, City, State, and Zip Code) 1447 140th Street Larchwood, IA 51241-9778		Telephone Number for Information 800-843-3386	
		Date Prepared September 17, 2013	Revised Date:
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Section II - Hazardous Ingredients/Identity Information			
Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other limits Recommended % (optional)
Thimerosal (merthiolate)	0.01 mg of Hg/ m ³		≤ 0.01
Section III - Physical/Chemical Characteristics			
Boiling Point	NA	Specific Gravity (H ₂ O = 1)	NA
Vapor Pressure (mm Hg.)	NA	Melting Point	NA
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	NA
Solubility in Water Yes			
Appearance and Odor Opaque brown yellowish liquid			
Section IV - Fire and Explosion Hazard Data			
Flash Point (Method Used) NA	Flammable Limits NA	LEL NA	UEL NA
Extinguishing Media Dry chemical or carbon dioxide			
Special Fire Fighting Procedures Wear protective clothing and a self contained breathing apparatus as appropriate for the surrounding fire.			
Unusual Fire and Explosion Hazards None			

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid Thimerosal will decompose with heat.
	Stable	X	
Incompatibility (Materials to Avoid)			
None			
Hazardous Decomposition or Byproducts Mercury, carbon monoxide, or carbon dioxide			
Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes
Health Hazards (Acute and Chronic)			
The product may be irritating in the case of skin or eye contact. While thimerosal is a toxic compound, it is only present in very small quantities in this product. (See Section II)			
Carcinogenicity: No NPT: No IARC Monographs: No OSHA Regulated: No			
Emergency and First Aid Procedures In case of skin or eye contact, flush with plenty of water. If the product is ingested, wash the mouth out with water and call a physician. In case of accidental injection, wash the puncture site and see a physician immediately.			
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Other Precautions N/A			
Section VIII - Control Measures			
Respiratory Protection (Specify Type)			
An approved cartridge respirator for large spills			
Ventilation	Local Exhaust	No	Special NA
	Mechanical (General)	Yes	Other NA
Protective Gloves		Eye Protection	
Vinyl or nitrile		Goggles	
Other Protective Clothing or Equipment			
NA			
Work/Hygienic Practices			
Take precautions to prevent accidental injections.			

Section IX - Regulatory Information	
Transportation:	UN-Number: FREE (under all transportation regulations) Class: This product is <u>not regulated as a dangerous good</u> when offered for transportation according to US DOT, EUADR, ICAO/IATA, IMDG or ADR/RID regulations.
Note: This product contains thimerosal (< 0.01%)	Thimerosal is a mercury compound which is subject to CWA, SDWA, CAA, RCRA, CERCLA, SARA (Secs. 312 and 313), DOT and 29 CFR 1910.1200 regulations.

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MATERIAL SAFETY DATA SHEET

IDENTITY			
4-star Autogenous SIV 80/20 WOW			
Section I			
Manufacturer's Name Novartis Animal Health US, Inc.		Emergency Telephone Number 800-454-3424	
Address (Number, Street, City, State, and Zip Code) 1447 140th Street Larchwood, IA 51241-9778		Telephone Number for Information 800-843-3386	
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Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other limits Recommended % (optional)
Thimerosal (merthiolate)	0.01 mg of Hg/ m ³		≤ 0.01
Section III - Physical/Chemical Characteristics			
Boiling Point	NA	Specific Gravity (H ₂ O = 1)	NA
Vapor Pressure (mm Hg.)	NA	Melting Point	NA
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	NA
Solubility in Water Yes			
Appearance and Odor Opaque brown yellowish liquid			
Section IV - Fire and Explosion Hazard Data			
Flash Point (Method Used) NA	Flammable Limits NA	LEL NA	UEL NA
Extinguishing Media Dry chemical or carbon dioxide			
Special Fire Fighting Procedures Wear protective clothing and a self contained breathing apparatus as appropriate for the surrounding fire.			
Unusual Fire and Explosion Hazards None			

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid Thimerosal will decompose with heat.
	Stable	X	
Incompatibility (Materials to Avoid)			
None			
Hazardous Decomposition or Byproducts Mercury, carbon monoxide, or carbon dioxide			
Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes
Health Hazards (Acute and Chronic)			
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Carcinogenicity: No NPT: No IARC Monographs: No OSHA Regulated: No			
Emergency and First Aid Procedures In case of skin or eye contact, flush with plenty of water. If the product is ingested, wash the mouth out with water and call a physician. In case of accidental injection, wash the puncture site and see a physician immediately.			
Section VII - Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material Is Released or Spilled			
Clean up the spill with absorbent material, and afterwards, wash the site thoroughly with water.			
Waste Disposal Method			
This product contains trace quantities of mercury per Section II above. If discarded in its manufactured form, this product is a hazardous waste under RCRA (U.S.) and CEPA (Canada). It is the responsibility of the user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a solid or hazardous waste. Always dispose of this product in accordance with all applicable federal, state and local environmental regulations.			
Precautions to Be Taken in Handling and Storing			
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Other Precautions N/A			
Section VIII - Control Measures			
Respiratory Protection (Specify Type)			
An approved cartridge respirator for large spills			
Ventilation	Local Exhaust	No	Special NA
	Mechanical (General)	Yes	Other NA
Protective Gloves		Eye Protection	
Vinyl or nitrile		Goggles	
Other Protective Clothing or Equipment			
NA			
Work/Hygienic Practices			
Take precautions to prevent accidental injections.			

Section IX - Regulatory Information	
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Vapor Pressure (mm Hg.)	NA	Melting Point	NA
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	NA
Solubility in Water Yes			
Appearance and Odor Opaque brown yellowish liquid			
Section IV - Fire and Explosion Hazard Data			
Flash Point (Method Used) NA	Flammable Limits NA	LEL NA	UEL NA
Extinguishing Media Dry chemical or carbon dioxide			
Special Fire Fighting Procedures Wear protective clothing and a self contained breathing apparatus as appropriate for the surrounding fire.			
Unusual Fire and Explosion Hazards None			

4-star Autogenous Erysipelas

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid Thimerosal will decompose with heat.
	Stable	X	
Incompatibility (Materials to Avoid)			
None			
Hazardous Decomposition or Byproducts Mercury, carbon monoxide, or carbon dioxide			
Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	
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Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
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Steps to Be Taken in Case Material Is Released or Spilled			
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Waste Disposal Method			
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Other Precautions N/A			
Section VIII - Control Measures			
Respiratory Protection (Specify Type)			
An approved cartridge respirator for large spills			
Ventilation	Local Exhaust	No	Special NA
	Mechanical (General)	Yes	Other NA
Protective Gloves		Eye Protection	
Vinyl or nitrile		Goggles	
Other Protective Clothing or Equipment			
NA			
Work/Hygienic Practices			
Take precautions to prevent accidental injections.			

4-star Autogenous Erysipelas

Section IX - Regulatory Information	
Transportation:	UN-Number: FREE (under all transportation regulations) Class: This product is <u>not regulated as a dangerous good</u> when offered for transportation according to US DOT, EUADR, ICAO/IATA, IMDG or ADR/RID regulations.
Note: This product contains thimerosal (< 0.01%)	Thimerosal is a mercury compound which is subject to CWA, SDWA, CAA, RCRA, CERCLA, SARA (Secs. 312 and 313), DOT and 29 CFR 1910.1200 regulations.

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