SAFETY DATA SHEET



1. Identification

Product identifier Poulvac Maternavac® IBD-Reo

Other means of identification

POULVAC® * Poulvac Maternavac IBD-Reo * Bursal Disease-Reovirus Vaccine, Standard and **Synonyms**

Variant, Killed Virus

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

1-888-963-8471

Services

Emergency telephone

numbers

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

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

Zoetis Canada Inc. Company Name (CA)

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

Emergency telephone

number

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

Contact E-Mail productsupport@zoetis.com

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

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. Not classified. **Health hazards** Not classified. **Environmental hazards**

Label elements

None. **Hazard symbol** Signal word None.

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

Precautionary statement

Observe good industrial hygiene practices. Prevention

Wash hands after handling. Response

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

Chemical name	Common name and synonyms	CAS number	%
Adjuvant		Mixture	*
Amphotericin B		1397-89-3	##
Bursal Disease Virus		Not assigned	*
Formaldehyde		50-00-0	##
Gentamicin		1403-66-3	##
Reovirus		Not assigned	*

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

Composition comments

Trace

* Non-hazardous Ingredients

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.

Eve 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. This product is an oil-adjuvanted suspension. Oil-adjuvant containing products may cause severe vasospasm following accidental injection.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Where parenteral oil-adjuvanted vaccine exposure has occurred, the patient should be promptly evaluated for the development of vasospasm and/or compartment syndrome.

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

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

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

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. For personal protection, see section 8 of the SDS.

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.

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. For waste disposal, see section 13 of the SDS.

Environmental precautions

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

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7. Handling and storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Store at 2-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do not freeze. Store out of direct sunlight in dark, dry conditions. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat, sparks and open flame.

0.1 ppm

8. Exposure controls/personal protection

Occupational exposure limits

Components) Type	Value
Formaldehyde (CAS 50-00-0)	STEL	0.3 ppm

TWA 0.1 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended Components Value

Componente	.,,,,,	14.40
Formaldehyde (CAS 50-00-0)	Ceiling	1.3 mg/m3
		1 ppm
	TWA	0.9 mg/m3
		0.75 ppm

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

Components	Туре	Value	
Formaldehyde (CAS 50-00-0)	STEL	0.3 ppm	
	TWA	0.1 ppm	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended Components Type Value Formaldehyde (CAS STEL 0.3 ppm 50-00-0)

TWA

Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Type	Value	
Formaldehyde (CAS 50-00-0)	STEL	1.5 ppm	
	TWA	0.5 ppm	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended Components Type Value

	.7100	
Formaldehyde (CAS 50-00-0)	Ceiling	1.5 ppm
	STEI	1 nnm

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended Components Type Value

Formaldehyde (CAS	Ceiling	0.3 ppm
50-00-0)		

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 engineeringGeneral ventilation normally adequate. Keep air contamination levels below the exposure limits or within the OEB range listed above in this section.

Individual protection measures, such as personal protective equipment

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

Skin protection

Wear appropriate chemical resistant gloves. Impervious gloves are recommended if skin contact **Hand protection**

with drug product is possible and for bulk processing operations.

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

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

In case of insufficient ventilation, wear suitable respiratory equipment. If airborne exposures are Respiratory protection

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. 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.

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

Physical state Liquid. **Form** Liquid.

Pale yellow - Red White. Colour

Odour Odourless. Melting point/freezing point Not available. Boiling point or initial boiling point and boiling range

Not available.

Flammability Not applicable.

Upper/lower flammability or explosive limits

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

(%)

Non-flammable Flash point **Auto-ignition temperature** Not available. Not available. **Decomposition temperature** рΗ > 6 - < 8 Kinematic viscosity Not available.

Solubility

Miscible Solubility (water) Not available. Partition coefficient

(n-octanol/water) (log value)

Not available. Vapour pressure Density and/or relative density Not available. Not available. Vapour density **Particle characteristics** Not available.

Other information

Explosive properties Not explosive. Oxidising properties Not oxidising.

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.

This material can be denatured or inactivated by a variety of organic solvents, salts or heavy Incompatible materials

metals.

Hazardous decomposition

products

No hazardous decomposition products are known.

Material name: Poulvac Maternavac® IBD-Reo Version #: 02 Revision date: 02-April-2024 Issue date: 07-June-2017

11. Toxicological information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact Prolonged skin contact may cause temporary irritation.

Formaldehyde Species: Rabbit

Severity: Moderate to Severe

Direct contact with eyes may cause temporary irritation. Eve contact

Gentamicin Species: Rabbit

Severity: Non-irritating

Formaldehyde Species: Rabbit

Severity: Severe

Ingestion May cause discomfort 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. 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. This product is an oil-adjuvanted suspension. Oil-adjuvant containing products may cause severe vasospasm following accidental injection.

Information on toxicological effects

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

personnel.

Test Results Components **Species**

Amphotericin B (CAS 1397-89-3)

Acute

Intraperitoneal

LD50 27.7 mg/kg Mouse Rat > 5000 mg/kg

Intravenous

LD50 Mouse 1.2 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Subacute

Intravenous

LOAEL Dog 37 mg/kg/day, 30 days (Kidney)

16.5 mg/kg/day, 2 months (Kidney)

Subchronic

Oral

NOAEL 1.6 mg/kg/day, 13 weeks (Male Dog

reproductive system, Female reproductive

system)

Rat 2 mg/kg/day, 13 weeks (Male reproductive

system, Female reproductive system)

Formaldehyde (CAS 50-00-0)

Acute

Dermal

LD50 Rabbit 270 mg/kg

Inhalation

LC50 Mouse 0.414 mg/l, 4 hours

Rat 0.48 mg/l, 4 hours

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Test Results Components **Species** Oral LD50 Rat 100 mg/kg **Chronic** Inhalation LOAEL Mouse 15 ppm, 2 years Tumours Rat 15 ppm, 90 days Respiratory system 6 ppm, 2 years Tumours Gentamicin (CAS 1403-66-3) **Acute** Intramuscular Mouse LD50 167 mg/kg Rat 463 mg/kg Oral LD50 Rat 6600 mg/kg **Subcutaneous** LD50 Rat 710 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 Eve contact Gentamicin Species: Rabbit Severity: Non-irritating Species: Rabbit Formaldehvde Severity: Severe Respiratory or skin sensitisation **ACGIH** sensitisation Formaldehyde (CAS 50-00-0) Dermal sensitisation Respiratory sensitisation Canada - Manitoba OELs Hazard: Dermal sensitization Formaldehyde (CAS 50-00-0) Dermal sensitisation Canada - Manitoba OELs Hazard: Respiratory sensitization Formaldehyde (CAS 50-00-0) Respiratory sensitisation Canada - Saskatchewan OELs Hazard Data: Sensitiser Formaldehyde (CAS 50-00-0) Sensitiser. Respiratory sensitisation Not a respiratory sensitiser. Skin sensitisation This product is not expected to cause skin sensitisation. This product contains formaldehyde which is considered to be a skin sensitizer. **Skin Sensitisation** Formaldehyde Species: Guinea Pig Severity: positive Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Mutagenicity Amphotericin B Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella, E. coli Formaldehyde In Vitro Bacterial Mutagenicity (Ames)

> Result: positive Species: Bacteria

Mutagenicity

Amphotericin B In Vitro Chromosome Aberration

Result: Negative

Species: Chinese Hamster Ovary (CHO) cells

Formaldehyde In Vitro Chromosome Aberration

> Result: positive Species: Rodent

In Vitro Sister Chromatid Exchange

Result: positive Species: Rodent

In Vivo Chromosome Aberration

Result: positive Species: Not specified

Amphotericin B In Vivo Micronucleus

Result: Negative Species: Mouse

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Due to partial or complete lack of data the classification is not possible. No known

carcinogens are present at greater than 0.1%.

ACGIH Carcinogens

Formaldehyde (CAS 50-00-0) A1 Confirmed human carcinogen.

Canada - Alberta OELs: Carcinogen category

Formaldehyde (CAS 50-00-0) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Formaldehyde (CAS 50-00-0) Confirmed human carcinogen.

Canada - Quebec OELs: Carcinogen category

Formaldehyde (CAS 50-00-0) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

US. National Toxicology Program (NTP) Report on Carcinogens

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

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

Developmental effects

Amphotericin B 10 mg/kg/day Embryo / Fetal Development, Not Teratogenic

> Fetotoxicity Result: NOAEL Species: Rabbit Organ: Oral

Formaldehyde 185 mg/kg/day Embryo / Fetal Development, Not teratogenic

Maternal toxicity Species: Mouse Organ: Oral

40 ppm Embryo / Fetal Development, Not Teratogenic

Maternal Toxicity Species: Rat Organ: Inhalation

Amphotericin B 7.5 mg/kg/day Embryo / Fetal Development, Not teratogenic

Fetotoxicity Result: NOAEL Species: Rat Organ: Oral

Gentamicin 75 mg/kg/day Embryo / Fetal Development, Developmental

toxicity

Result: LOAEL Species: Rat Organ: Intramuscular

Material name: Poulvac Maternavac® IBD-Reo

SDS CANADA

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Further information

Allergic reactions are possible. The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms. This product is an oil-adjuvanted suspension. Oil-adjuvant containing products may cause

severe vasospasm following accidental injection.

12. Ecological information

Ecotoxicity

Avoid release to the environment. 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	Daphnia magna (Water Flea)	42 mg/l, 24 Hours
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	118 ppm, 96 Hours
Acute			
Crustacea	EC50	Water flea (Daphnia pulex)	4.3 - 7.8 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	8.7 mg/l, 96 hours
sistence and degradability	No data i	a available on the degradability of this product	

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available for this product.

Mobility in soil

This product is miscible in water and may not disperse 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

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations. 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.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

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

disposal company. 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.

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 Not established.

the IBC Code

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.

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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.

Country(s) or region

International Inventories

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

^{*}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 date07-June-2017Revision date02-April-2024

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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.

Inventory name

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

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On inventory (yes/no)*