

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078545823

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078545831 078884390



**UPDATED PRODUCT CODE:** 069139, 069140, 030791, 030872, 037433, 032958,  
036486, 036595, 030313, 032887  
**VERSION DATE:** 7/2007

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## MATERIAL SAFETY DATA SHEET

### ----- 1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION -----

**Product Name:** VETERINARY BIOLOGIC PRODUCTS  
**Product Family:** EQUINE VACCINES w/ thimerosal

**SYNONYMS:**

PRESTIGE® 1DS, 10DS  
PRESTIGE® II 1DS, 10DS  
PRESTIGE® IV Foal Shot  
PRESTIGE® V 1DS, 10DS  
PRESTIGE® V+VEE 1DS, 10DS

**PRODUCT CODE:**

069139, 069140  
030791, 030872  
037433, 032958  
036486, 036595  
030313, 032887

**PRODUCT USE:** Refer to product insert for proper usage.

**COMPANY ADDRESS** - Intervet Inc - 29160 Intervet Lane - Millsboro, DE 19966

### ----- 2. COMPOSITION / INFORMATION on INGREDIENTS -----

<b><u>HAZARDOUS COMPONENT/ CAS NUMBER:</u></b>	<b><u>EXPOSURE LIMITS:</u></b>	<b><u>CONCENTRATION:</u></b>
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Adjuvant *	None Established	10 - 30%
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\* Specific chemical identity withheld as trade secret.

### ----- 3. HAZARDS IDENTIFICATION-----

**ROUTES OF ENTRY:** Dermal, Injection, Inhalation, Ingestion

**ACUTE EFFECTS OF EXPOSURE:** This product is USDA approved for veterinary use. To the best of our knowledge, there are no hazards associated with the products listed above when handled and administered according to the product insert and under normal conditions of use. However, contact

**EMERGENCY:** HUMAN, FIRE, SPILL OR ENVIRONMENTAL: 1-800-228-5635 EXT. 132 24 HRS.  
ANIMAL: 1-800-345-4735 EXT. 104 24 HRS.  
CHEMTREC® FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE: 1-800-424-9300

**PRODUCT INFORMATION:** 1-800-835-0541 OR 1-302-934-8051 9:00 A.M. – 5:00 P.M. EST



**UPDATED PRODUCT CODE:** 069139, 069140, 030791, 030872, 037433, 032958,  
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with any liquid or powder may cause irritation to the eyes and skin. As such, following those recommendations on Personal Protection as provided in Section 8 of this document may be prudent.

Accidental human injection of inactivated oil emulsion vaccines, containing adjuvants, diluents and stabilizers may cause serious localized reactions and direct tissue injury. Symptoms of exposure may include significant swelling and pain at the area of injection. Other concerns may involve bacterial infection from needles used in multiple animal vaccinations.

**CHRONIC EFFECTS OF EXPOSURE:** No chronic health effects associated with the listed products are known.

**CARCINOGENIC EFFECTS:** This product is not considered a carcinogen and is not listed by OSHA, IRAC or NTP.

#### ----- 4. FIRST AID MEASURES -----

**SKIN:** Wash immediately affected area with soap and water. Contact a physician if irritation occurs.

**EYES:** Immediately flush with plenty of water for fifteen minutes. Contact a physician

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration and call for medical help immediately.

**INGESTION:** Seek medical attention immediately.

**INJECTION:** Remove needle, wash injection site with soap and water, contact physician immediately. Following accidental injection, the vaccine can remain in the focal area near the injection site or disperse itself from the injection site. After physician evaluation, it may be found prudent to remove the foreign irritant.

#### ----- 5. FIRE FIGHTING MEASURES -----

**EXTINGUISHING METHODS:** Use Water, Water Mist, Foam or Dry Chemical to extinguish fire. For fighting large fire wear full bunker gear, including SCBA. Keep upwind.

#### ----- 6. ACCIDENTAL RELEASE MEASURES -----

**PROCEDURES IN CASE OF SPILL OR LEAK:** Clean up spilled material. Place in a secure container for disposal.

#### ----- 7. HANDLING and STORAGE -----

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**STORAGE:** *Keep refrigerated, 2°-7°C (36°-45°F). Avoid high temperatures and freezing of liquid. Protect containers from damage.*

**SHELF LIFE:** *See expiration date on product label.*

**HANDLING PRECAUTIONS:** *Read and follow all package insert instructions. Protect containers from damage.*

## ----- 8. EXPOSURE CONTROL / PERSONAL PROTECTION -----

**EYES:** *Prevent eye contact by wearing appropriate eye protection for handling tasks.*

**SKIN:** *Avoid skin contact. Wear chemical resistant gloves, long-sleeves and trousers to prevent dermal contact.*

**RESPIRATOR PROTECTION:** *Under normal conditions of use, as stated in the product insert, no respiratory protection is necessary. However, if ventilation is inadequate wear a NIOSH approved respirator.*

## ----- 9. PHYSICAL and CHEMICAL PROPERTIES -----

**APPEARANCE:** *Clear or Brown liquid w/ no discernible odor.*

**PH:** *Neutral*

## ----- 10. STABILITY and REACTIVITY -----

**CHEMICAL STABILITY:** *Stable*

**CONDITIONS TO AVOID:** *None known*

**INCOMPATIBILITY:** *None Known*

**HAZARDOUS POLYMERIZATION:** *Will not occur*

## ----- 11. TOXICOLOGICAL INFORMATION -----

**Oral LD 50 Rat:** *Not available*

**Intraperitoneal LD50 (rat):** *Not available*

**Intraperitoneal LD50 (mouse):** *Not available*

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----- **12. ECOLOGICAL INFORMATION** -----

*This product when used according to the insert direction, poses negligible impact on the environment.*

----- **13. DISPOSAL CONSIDERATIONS** -----

*When discarded in its purchased form, this product meets the criteria of Toxicity Characteristic Leaching Procedure (TCLP) for mercury (EPA Hazardous Waste Number D009), and should be managed as hazardous waste.*

----- **14. TRANSPORTATION** -----

DOT SHIPPING INFORMATION: *Not regulated by the DOT*

----- **15. REGULATORY INFORMATION** -----

OSHA STATUS: *This product not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200*

TSCA STATUS: *This product is a food, food additive, drug, cosmetic or device as defined by section 201 of the Federal Food, Drug and Cosmetic Act and therefore is exempt from TSCA regulation under section 3 (2) (B) (vii)*

SARA Title III:

Section 302 Extremely Hazardous Substance:	None
Section 311/312 Hazard Categories:	Immediate Health Hazard
Section 313 Toxic Chemicals:	None

RCRA STATUS: *When discarded in its purchased form, this product meets the criteria of Toxicity Characteristic Leaching Procedure (TCLP) for mercury (EPA Hazardous Waste Number D009), and should be managed as hazardous waste.*

----- **16. OTHER INFORMATION** -----

***The information contained herein is true and accurate to the best of the knowledge of Intervet Inc. However, all data, instructions and/or recommendations are made without guarantee. The buyer and handler assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.***

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Merck Animal Health  
One Merck Dr.  
Whitehouse Station, NJ 08889

## MATERIAL SAFETY DATA SHEET

Merck Animal Health urges each user or recipient of this MSDS to read the entire data sheet to become aware of the hazards associated with this material.

### SECTION 1. IDENTIFICATION OF SUBSTANCE AND CONTACT INFORMATION

**MSDS NAME:** PRESTIGE V + VEE + WNV WITH HAVLOGEN

**SYNONYM(S):** PRESTIGE V + VEE - WNV with HAVLOGEN  
Encephalomyelitis-Rhinopneumonitis-Influenza-West Nile Virus Vaccine, Eastern & Western & Venezuelan, Killed Virus, Killed Flavivirus Chimera, Tetanus Toxoid

**MSDS NUMBER:** SP002118

**EMERGENCY NUMBER(S):** (908) 423-6000 (24/7/365) English Only

Transportation Emergencies - CHEMTREC:  
(800) 424-9300 (Inside Continental USA)  
(703) 527-3887 (Outside Continental USA)

Rocky Mountain Poison Center (For Human Exposure):  
(303) 595-4869

Animal Health Technical Services:  
For Animal Adverse Events: Small Animals and Horses: (800) 224-5318  
For Animal Adverse Events: Livestock: (800) 211-3573  
For Animal Adverse Events: Poultry: (800) 219-9286

**INFORMATION:** Animal Health Technical Services:  
For Small Animals and Horses: (800) 224-5318  
For Livestock: (800) 211-3573  
For Poultry: (800) 219-9286

**MERCK MSDS HELPLINE:** (800) 770-8878 (US and Canada)  
(908) 473-3371 (Worldwide)  
Monday to Friday, 9am to 5pm (US Eastern Time)

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### SECTION 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Liquid  
Pinkish White  
Odor unknown  
May cause allergic reactions in susceptible individuals.

#### POTENTIAL HEALTH EFFECTS:

This product is a vaccine for use in animals. This vaccine is not pathogenic to humans or animals. Local irritation to the eyes, skin, or respiratory tract may occur following direct contact or inhalation of the product. Accidental injection may cause local swelling, irritation or necrosis at the injection site. As with any vaccine, exposure may cause hypersensitivity reactions.

## LISTED CARCINOGENS

No carcinogens or potential carcinogens listed by OSHA, IARC, NTP or ACGIH are present in concentrations >0.1% in this mixture.

**ADDITIONAL INFORMATION:** This product contains a preservative or preservatives which may cause allergic-type reactions, including anaphylactic shock, in susceptible individuals.

### SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**PRODUCT USE:** Vaccine

**CLASS:** Killed Virus/Toxoid

**CHEMICAL FORMULA:** Mixture.

The formulation for this product is proprietary information. Only hazardous ingredients in concentrations of 1% or greater and/or carcinogenic ingredients in concentrations of 0.1% or greater are listed in the Chemical Composition table. Active ingredients in any concentration are listed. For additional information about carcinogenic ingredients see Section 2.

### CHEMICAL COMPOSITION

INGREDIENT	CAS NUMBER	PERCENT
Eastern Equine Encephalomyelitis Virus (Inactivated)		Varies
West Nile/Yellow Fever Chimera Virus (Inactivated)		Varies
Equine Herpesvirus Type 1 Virus (Inactivated)		Varies
Equine Herpesvirus Type 4 Virus (Inactivated)		Varies
Venezuelan Equine Encephalomyelitis Virus (Inactivated)		Varies
C. tetanus toxide (Inactivated)		Varies
Adjuvant	Mixture	10
Glycerin	56-81-5	<10
Preservative (Thimerosal)	54-64-8	<1

**ADDITIONAL INFORMATION:** This MSDS is written to provide health and safety information for individuals who will be handling the final product formulation during research, manufacturing, and distribution. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate MSDS for each ingredient. Refer to the package insert or product label for handling guidance for the consumer.

### SECTION 4. FIRST AID MEASURES

**INHALATION:** Remove to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a physician.

**SKIN CONTACT:** In case of skin contact, while wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a physician.

**EYE CONTACT:** In case of eye contact, immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a physician.

**INGESTION:** Rinse mouth and drink a glass of water. Do not induce vomiting unless under the direction of a qualified medical professional or Poison Control Center. If symptoms persist, consult a physician.

**NOTE TO PHYSICIAN:** This product is a vaccine. Accidental injection may cause local swelling, irritation or necrosis at the injection site. This preparation contains a preservative or antibiotic or both which may cause allergic reactions in susceptible individuals.

### SECTION 5. FIRE FIGHTING MEASURES

#### FLAMMABILITY DATA:

Flash Point: Not determined (liquids) or not applicable (solids).

**SPECIAL FIRE FIGHTING PROCEDURES:**  
Wear full protective clothing and self-contained breathing apparatus (SCBA).

**SUITABLE EXTINGUISHING MEDIA:**  
Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray.

**MSDS NAME:** PRESTIGE V + VEE + WNV  
WITH HAVLOGEN  
Latest Revision Date: 28-Sep-2011

**MSDS NUMBER:** SP002118



## SECTION 5. FIRE FIGHTING MEASURES

See Section 9 for Physical and Chemical Properties.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

Wear appropriate personal protective equipment as specified in Section 8. Keep personnel away from the clean-up area.

### SPILL RESPONSE / CLEANUP:

All spills should be handled according to site requirements and based on precautions cited in the MSDS. In the case of liquids, use proper absorbent materials. For laboratories and small-scale operations, incidental spills within a hood or enclosure should be cleaned by using a HEPA filtered vacuum or wet cleaning methods as appropriate. For large dry or liquid spills or those spills outside enclosure or hood, appropriate emergency response personnel should be notified. In manufacturing and large-scale operations, HEPA vacuuming prior to wet mopping or cleaning is required.

See Sections 9 and 10 for additional physical, chemical, and hazard information.

## SECTION 7. HANDLING AND STORAGE

### HANDLING:

Keep containers adequately sealed during material transfer, transport, or when not in use. Wash face, hands, and any exposed skin after handling. Do not eat, drink, or smoke when using this substance or mixture.

Appropriate handling of this material is dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. See Section 8 (Exposure Controls) for additional guidance.

### STORAGE:

Refrigerate at 2 to 7 deg C.

See Section 8 for exposure controls and additional safe handling information.

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS

The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

### RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE):

Respiratory Protection:	Respiratory protective equipment (RPE) may be required for certain laboratory and large-scale manufacturing tasks if potential airborne breathing zone concentrations of substances exceed the relevant exposure limit(s). Workplace risk assessment should be completed before specifying and implementing RPE usage. Potential exposure points and pathways, task duration and frequency, potential employee contact with the substance, and the ability of the substance to be rendered airborne during specific tasks should be evaluated. Initial and ongoing strategies of quantitative exposure measurement should be obtained as required by the workplace risk assessment. All RPE must conform to local and regional specifications for efficacy and performance. Consult your site or corporate health and safety professional for additional guidance.
Skin Protection:	Gloves that provide an appropriate barrier to the skin are recommended if there is potential for contact with this material. Consult your site safety staff for guidance.
Eye Protection:	Safety glasses with side shields. Use of goggles or full face protection may be required based on hazard, potential for contact, or level of exposure. Consult your site safety staff for guidance.
Body Protection:	<p>In small-scale or laboratory operations, lab coats or equivalent protection is required. Disposable Tyvek or other dust impermeable suit should be considered based on procedure or level of exposure. Use of additional PPE such as shoe coverings, gauntlets, hood, or head covering may be necessary. Consult your site safety staff for guidance.</p> <p>In large-scale or manufacturing operations, disposable Tyvek or other dust impermeable suit is recommended and based on level of exposure. Use of additional PPE such as shoe coverings, gauntlets, hood, or head covering may be necessary. Consult your site safety staff for guidance.</p>

## EXPOSURE LIMIT VALUES

INGREDIENT	CAS NUMBER	ACGIH TLV (TWA)	OSHA PEL (TWA)
Glycerin	56-81-5	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>

Fields in the above table(s) that do not contain data indicate that exposure limits are not available for those endpoints.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**FORM:** Liquid  
**COLOR:** Pinkish White  
**ODOR:** Odor unknown  
**pH:** 7.0  
**SOLUBILITY:**  
Water: Not determined

See Section 5 for flammability/explosivity information.

## SECTION 10. STABILITY AND REACTIVITY

**STABILITY/ REACTIVITY:**  
Stable under normal conditions.

**INCOMPATIBLE MATERIALS / CONDITIONS TO AVOID:**  
None known.

**HAZARDOUS DECOMPOSITION PRODUCTS / REACTIONS:**  
Mercury (thimerosal)

## SECTION 11. TOXICOLOGICAL INFORMATION

The toxicological properties of this material have not been fully characterized in humans or animals.

### ACUTE TOXICITY DATA

**INHALATION:**  
Glycerin: Inhalation LC50 (1hr): >570 mg/m<sup>3</sup> [>0.57 mg/L] (rat)

**SKIN:**  
Glycerin: Skin LD50: >10,000 mg/kg (rabbit)  
Glycerin was slightly irritating to the skin of rabbits.

**EYE:**  
Glycerin was slightly irritating to the eyes of rabbits.

**ORAL:**  
Glycerin: Oral LD50: 12,600 mg/kg (rat) Glycerin: Practically not toxic

### REPEAT DOSE TOXICITY DATA

**MUTAGENICITY / GENOTOXICITY:**  
Glycerin was negative in a bacterial mutagenicity study (Ames). Glycerin was positive in chromosome aberration studies in rat bone marrow and sperm cells; however, it was negative in an occupational cytogenetics chromosome aberration study.

**CARCINOGENICITY:**  
This material or product has not been evaluated for carcinogenicity.

## SECTION 12. ECOLOGICAL INFORMATION

There are no data for the final product or its formulation(s). The information presented below pertains to the following ingredient(s).

### ECOTOXICITY DATA

**MSDS NAME:** PRESTIGE V + VEE + WNV  
WITH HAVLOGEN  
Latest Revision Date: 28-Sep-2011

**MSDS NUMBER:** SP002118

**INGREDIENT ECOTOXICITY**

Glycerin: 96-hr LC50 (trout): 50-67 mg/L  
Glycerin: 96-hr LC50 (goldfish): >5000 mg/L  
Glycerin: Toxicity threshold-cell multiplication inhibition test (algae): 2900 mg/L

**ENVIRONMENTAL DATA**

There are no environmental data available for these products or their components.

**SECTION 13. DISPOSAL CONSIDERATIONS****MATERIAL WASTE:**

Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations. Incineration is the preferred method of disposal, when appropriate. Operations that involve the crushing or shredding of waste materials or returned goods must be handled to meet the recommended exposure limit(s).

**PACKAGING AND CONTAINERS:**

Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations.

**SECTION 14. TRANSPORT INFORMATION**

This material is not subject to the transportation regulations of DOT, IATA, IMO, and the ADR.

**SECTION 15. REGULATORY INFORMATION****TSCA LISTING**

INGREDIENT	TSCA
Glycerin	X
Preservative (Thimerosal)	X

Substances not included in the table above are TSCA exempt or not regulated under TSCA.

**U.S. STATE REGULATIONS**

INGREDIENT	California Proposition 65	CARTK	NJRTK	CTRTK	MARTK
Glycerin			3319		X
Preservative (Thimerosal)	D	X			

INGREDIENT	PARTK	MNRTK	MIRTK	RIRTK
Glycerin	X	X		X
Preservative (Thimerosal)	X		X	

Fields in the above tables that do not contain data indicate that those materials have not been listed by local regulations.

X: Listed on applicable state hazardous substance or right-to-know lists.

D: Developmental hazard

**SECTION 16. OTHER INFORMATION**

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

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**DEPARTMENT ISSUING MSDS:**

Global Safety & the Environment  
Merck & Co., Inc.  
One Merck Drive  
Whitehouse Station, NJ 08889

**MSDS NAME:** PRESTIGE V + VEE + WNV  
WITH HAVLOGEN

Latest Revision Date: 28-Sep-2011

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**MERCK MSDS HELPLINE:**

(800) 770-8878 (US and Canada)  
(908) 473-3371 (Worldwide)  
Monday to Friday, 9am to 5pm (US Eastern Time)

**MSDS CREATION DATE:**

19-Jun-2009

**SUPERSEDES DATE:**

09-Oct-2009

**SECTIONS CHANGED (US SUBFORMAT):**

2, 3

**SIGNIFICANT CHANGES (US SUBFORMAT):**

Formulation, New regional format, OEB