



**Section 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER**

<b>Product Name:</b>	<b>IMPROVAC<sup>®</sup> Boar Taint Vaccine for Male Pigs</b>
<b>ACVM Registration No.:</b>	A7723
<b>PAR Statement:</b>	<b>Prescription Animal Remedy (PAR) Class I</b> For use only under the authority or prescription of a veterinarian.
<b>Recommended Use:</b>	<b>Vaccine</b> Used to control boar taint caused by the accumulation of taint substances (including androsterone and skatole) in entire male pigs.
<b>Company Details:</b>	<b>Pfizer Animal Health</b> Pfizer New Zealand Limited Level 3, Pfizer House 14 Normanby Road, Mt Eden PO Box 3998 AUCKLAND NEW ZEALAND
<b>Telephone No.:</b>	0800 650 277 (Business Hours)
<b>National Poisons Centre:</b>	0800 POISON (0800 764 766)
<b>Date of Preparation:</b>	5 December 2006

**Section 2: HAZARDS IDENTIFICATION**

<b>Hazard Classification:</b>	6.5B
<b>Priority Identifiers:</b>	PRESCRIPTION ANIMAL REMEDY KEEP OUT OF REACH OF CHILDREN FOR ANIMAL TREATMENT ONLY
<b>Secondary Identifiers:</b>	6.5B May cause an allergic skin reaction.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

MIXTURE:		
Chemical Identity of Ingredients:		
Ingredient	CAS No.	Content
GnRF-protein conjugate	N/A	200 µg/mL
Thiomersal	54-64-8	0.1 g/L
Other ingredients determined not to be hazardous.	-	-

This is a commercial product whose exact ratio of components may vary.  
Trace quantities of impurities are also likely.

## Section 4: FIRST AID MEASURES

<b>Necessary First Aid Measures:</b>	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention. Provide the container, label, or Safety Data Sheet where possible.
Swallowed:	If swallowed, do NOT induce vomiting. Rinse the mouth out with plenty of water. If irritation occurs or persists, seek medical attention.
Eye Contact:	If eye contact occurs, hold the eyes open and flush with fresh running water. Ensure complete irrigation by occasionally lifting the eyelids. Removal of contact lenses after an eye injury should only be undertaken by a skilled professional. If irritation occurs or persists, seek medical attention.
Skin Contact:	If skin contact occurs, remove contaminated clothing and wash the affected area with soap and water. If irritation occurs or persists, seek medical attention.
Inhaled:	If inhaled, move the victim to fresh air immediately. If irritation occurs or persists, seek medical attention.
<b>Poisoning Symptoms:</b>	No information regarding the symptoms of poisoning is available for this product.
<b>Workplace Facilities:</b>	No specific facilities required. Standard emergency equipment must be available.
<b>Hygiene Practices:</b>	Avoid ingestion, inhalation and contact with skin and eyes. Do not eat, drink or smoke while using this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash any protective clothing after use.
<b>Notes for Medical Personnel:</b>	Treat symptomatically. Note the nature of this product.

## Section 5: FIRE-FIGHTING MEASURES

<b>Type of hazard:</b>	This product is not flammable.
<b>Fire Hazard Properties:</b>	This product is unlikely to decompose at temperatures normally achieved in a fire. Likely to decompose only after heating to dryness followed by further strong heating.
<b>Regulatory Requirements:</b>	Not applicable.
<b>Extinguishing Media and Methods:</b>	Use dry chemical, foam, carbon dioxide or water to extinguish fires involving this product.
<b>Hazchem Code:</b>	None allocated.
<b>Recommended Protective Clothing:</b>	Wear approved positive pressure, self-contained breathing apparatus and full protective turn-out gear during large-scale fire-fighting operations.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Personnel involved in clean-up should wear appropriate personal protective equipment to minimise exposure. This may include the use of eye protection, chemically resistant gloves, boot and/or overalls.
<b>Environmental Precautions:</b>	Prevent material from entering surface water drains or waterways. If a significant quantity of material enters drains, advise emergency services.
<b>Procedure for Spill:</b>	Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Stop leak if safe to do so, and contain the spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers and dispose of promptly. After spills, wash area preventing runoff from entering drains.
<b>Procedure for Disposal:</b>	Dilute with water and flush to sewer. Decontaminate empty containers with water. Recycle containers if possible, or dispose of in authorised landfill. Used needles should immediately be placed in a designated and appropriately labelled "sharps" container. Contaminated material must be disposed of in accordance with local, regional and national requirements.

## Section 7: HANDLING AND STORAGE

### HANDLING:

<b>Precautions for Safe Handling:</b>	No special technical protective measures required. No special handling advice required.
<b>Regulatory Requirements:</b>	Not applicable.
<b>Handling Practices:</b>	Avoid ingestion, inhalation and contact with skin and eyes. Do not eat, drink or smoke while using this product. Wash hands and exposed skin before eating, drinking or smoking and after work.
<b>Approved Handlers:</b>	Approved handlers are not required for this product.

### STORAGE:

<b>Conditions for Safe Storage:</b>	Keep out of reach of children. Store in original container, tightly closed, away from foodstuffs. Store at 2-8°C. Refrigerate. Do not freeze.
<b>Store Site Requirements:</b>	No additional requirements.
<b>Packaging:</b>	Check that containers are clearly labelled. Packaging as recommended by manufacturer.

## Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

**ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS**

<b>WORKPLACE EXPOSURE GUIDELINES:</b>	
<b>Workplace Exposure Standards:</b>	A time weighted average (TWA) concentration for an 8-hour day, and a 5-day week has not been established by NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m <sup>3</sup> for dusts or mists when limits have not otherwise been established.
<b>Application in the Workplace:</b>	The nature of this product makes it unlikely that this level will be approached in normal use.
<b>Exposure Standards Outside the Workplace:</b>	None set.
<b>Engineering Controls:</b>	Engineering controls should be used as the primary means to control exposures. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
<b>Personal Protection:</b>	<p>The following instructions are meant for people coming into frequent and lengthy contact with this product. For occasional use, take precautions suitable for the conditions under which the product is being used.</p> <p>Respiratory: It is usually safe not to use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred.</p> <p>Eyes: Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear.</p> <p>Skin: Clean overalls should be worn, preferably with an apron.</p> <p>Hands: Rubber, PVC or other protective gloves are not necessary but are desirable, especially if product is being used frequently or for lengthy periods.</p>
<b>General Hygiene:</b>	Change work clothes regularly. Avoid ingestion, inhalation and contact with skin and eyes. Do not eat, drink or smoke while using this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash contaminated clothing and other protective equipment before storing or re-using.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Aqueous liquid solution.
<b>Odour:</b>	No data available.
<b>Specific Gravity:</b>	1.052
<b>Melting Point:</b>	0°C
<b>Boiling Point:</b>	No data available.
<b>pH:</b>	7.4 – 7.8
<b>Flashpoint:</b>	Not applicable. This product is not flammable.
<b>Solubility in Water:</b>	Soluble
<b>Oxidising Properties:</b>	Not applicable. This product is not an oxidiser.
<b>Corrosive Properties:</b>	Not applicable. This product is not corrosive.
<b>Vapour Pressure:</b>	3.19 kPa @ 25°C

## Section 10: STABILITY & REACTIVITY

<b>Stability of the Substance:</b>	This product is stable under normal conditions of use.
<b>Conditions to Avoid:</b>	Store at 2-8°C. Prolonged exposure to higher temperatures may adversely affect potency. Do not freeze.
<b>Material to Avoid:</b>	None known.
<b>Hazardous Decomposition Products:</b>	No significant quantities of decomposition products are expected at temperatures normally achieved in a fire.
<b>Hazardous Polymerisation:</b>	This product is unlikely to spontaneously polymerise.
<b>Specific Data:</b>	No specific data available.

## Section 11: TOXICOLOGICAL INFORMATION

### HSNO CLASSIFICATIONS:

**6.5B =** May cause an allergic skin reaction.

### ACUTE EFFECTS:

Principal routes of exposure are by skin contact, accidental injection (needle stick injury), ingestion and/or inhalation of syringe expressed aerosols. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in the work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice. This material is not regarded as pathogenic in humans.

**Ingestion:** Considered an unlikely route of entry in commercial/industrial environments. This material is non-toxic but may be harmful if swallowed in large quantity.

**Eye Contact:** This material may be mildly discomforting to the eyes (due to preservative used).

**Skin Contact:** This material may be mildly discomforting to the skin and may cause allergy if exposure is prolonged. Local injection site reaction in humans may occur from accidental injection through the skin (needle stick injury), due to adjuvant used.

**Inhalation:** Not normally a hazard due to non-volatile nature of the product. The spray mist may be discomforting to the upper respiratory tract and lungs, and repeated exposure may cause sensitisation and/or allergic/asthma-like response.

### CHRONIC / LONG-TERM EFFECTS:

No specific data are available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

## Section 12: ECOTOXICITY INFORMATION

### HSNO CLASSIFICATIONS:

Not applicable. This product is not classified as ecotoxic according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

The environmental characteristics of this material have not been fully evaluated.  
Releases to the environment should be avoided.

### ECOTOXICITY EFFECTS:

<b>Toxicity to Birds:</b>	Not applicable
<b>Acute Toxicity to Fish:</b>	Not applicable
<b>Toxicity to Algae:</b>	Not applicable
<b>Toxicity to Aquatic Invertebrates:</b>	Not applicable
<b>Toxicity to Soil Dwelling Organisms:</b>	Not applicable
<b>Acute Toxicity to Bees:</b>	Not applicable

### ENVIRONMENTAL FATE:

No information available.

## Section 13: DISPOSAL CONSIDERATIONS

<b>Product Disposal:</b>	Preferably dispose of product by use. Otherwise dispose of product at an approved landfill, or other approved facility in accordance with local, regional and national regulations.
<b>Container Disposal:</b>	Dispose of empty containers by wrapping in paper and putting in garbage for disposal at an approved landfill, or other approved facility in accordance with local, regional and national regulations. Used needles should immediately be placed in a designated and appropriately labelled "sharps" container.

## Section 14: TRANSPORT INFORMATION

<b>Rail / Road (RID/ADR):</b>	Not classified as dangerous according to rail/road transport regulations. Keep at 2-8°C in transit.
<b>Sea (IMDG-Code):</b>	Not classified as dangerous according to sea transport regulations. Keep at 2-8°C in transit.
<b>Air (ICAO/IATA):</b>	Not classified as dangerous according to air transport regulations. Keep at 2-8°C in transit.

## Section 15: REGULATORY INFORMATION

<b>HSNO Approval Number:</b>	HSR000015
<b>HSNO Controls:</b>	See <a href="http://www.ermanz.govt.nz/search/registers.html">http://www.ermanz.govt.nz/search/registers.html</a> for controls.
<b>ACVM Registration Number:</b>	A7723
<b>ACVM Controls:</b>	See <a href="http://www.nzfsa.govt.nz/acvm/">http://www.nzfsa.govt.nz/acvm/</a> for registration conditions.

## Section 16: OTHER INFORMATION

**Note:** This product is a veterinary medicine and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

**CONTACT POINT:** Technical Services – Animal Health: 0800 650 277  
**24 HOUR EMERGENCY CONTACT:** **0800 POISON**  
**(0800 764 766)**

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

**Please read all labels carefully before using product.**

If clarification of further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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**GHS Hazard Symbol(s):**

