## **SAFETY DATA SHEETS**

This SDS packet was issued with item: 078378170

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

078377212 078377774



# SAFETY DATA SHEET

### 1. Identification

Product identifier	Bar-Vac® 7/Somnus		
Other means of identification			
Product code	APHIS Code – 7423.00, Family Code - 187		
Recommended use	Recommended for the vaccination of healthy, susceptible cattle against diseases caused by Clostridium chauvoei, Cl. Septicum, Cl. novyi, Cl. Sordellii; Cl. perfringens Types C and D and Haemophilus somnus.		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier	r/Distributor information		
Manufacturer	Boehringer Ingelheim Vetmedica, Inc.		
Address	2621 North Belt Hwy		
	St. Joseph, MO 64506-2002		
Transportation emergency	For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night		
	Within USA and Canada: 1-800-424-9300		
	Outside USA and Canada: +1 703-527-3887 (collect calls accepted)		
Medical Emergency (24HR):	(866)638-2226		
Non-Emergency calls:	(800) 821-7467		
2 Hazard(a) identification			

#### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1
	Carcinogenicity	Category 1A
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger		
Hazard statement	May cause cancer. May cause an allergic skin reaction.		
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If exposed or concerned: Get medical advice/attention.		
Storage	Store away from incompatible materials. Keep at a temperature between 2 - 7°C Do not freeze. Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

### 3. Composition/information on ingredients

**Mixtures** 

Chemical name	CAS number	%
Phenol	108-95-2	0.5

Clostridium novyi bacterin-toxoid – deactivated		N/A	Proprietary
Clostridium perfringens Type C bacterin-toxoid – deactivated		NA	Proprietary
Clostridium perfringens Type D bacterin-toxoid - deactivated		NA	Proprietary
Clostridium sordellii bacterin-toxoid – deactivated		N/A	Proprietary
Formaldehyde*		50-00-0	≤ 0.5
Haemophilus somnus Bacterin-toxoid - deactivated		NA	Proprietary
composition comments	* Used to inactivate bacterin and subsequen maximum remaining amount by percent weight		
. First-aid measures			
halation	If breathing is difficult, remove to fresh air an Call a physician if symptoms develop or per-		comfortable for breath
kin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.		
ye contact	Rinse with water. Get medical attention if irritation develops and persists.		
ngestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately		
/lost important symptoms/effects, acute and lelayed	May cause an allergic skin reaction. Dermat vomiting, nausea, dizziness, drowsiness and		ge quantity may cause
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and tr Symptoms may be delayed. Not for human u developing anaphylactic (life threatening) re- unconsciousness, must receive immediate r	use. For use in cattle and s actions, such as difficulty in	wine only. Persons
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are awar of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.		
5. Fire-fighting measures			
uitable extinguishing media	Water fog. Foam. Dry chemical powder. Car	bon dioxide (CO2).	
Insuitable extinguishing nedia	None known.		
pecific hazards arising from ne chemical	During fire, gases hazardous to health may	be formed.	
pecial protective equipment nd precautions for firefighters	Self-contained breathing apparatus and full	protective clothing must be	worn in case of fire.
ire fighting quipment/instructions	Move containers from fire area if you can do	so without risk.	
pecific methods	Use standard firefighting procedures and co	nsider the hazards of other	involved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	ures		

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. 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. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.	
	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.	
7. Handling and storage		
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store away from foodstuffs. Store in the dark at 2°C to 7°C (35°F to 45°F). Avoid freezing. Shake Well. Protect from direct sunlight.	

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Components	gulated Substances (29 CFR 1910.1001-1) Type	Value	
Formaldehyde* (CAS 50-00-0)	STEL	2 ppm	
,	TWA	0.75 ppm	
US. ACGIH Threshold Lin	nit Values		
Components	Туре	Value	
Formaldehyde* (CAS 50-00-0)	STEL	0.3 ppm	
	TWA	0.1 ppm	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Formaldehyde* (CAS 50-00-0)	Ceiling	0.1 ppm	
	TWA	0.016 ppm	
logical limit values	No biological exposure limits noted for the	ne ingredient(s).	
propriate engineering htrols	should be matched to conditions. If appl or other engineering controls to maintair	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
ividual protection measure	es, such as personal protective equipment	t	
Eye/face protection	None required for consumer use. In laboratory, medical or industrial settings, safety glasses with side shields are recommended. The use of goggles or full face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for specific information.		
Skin protection			
Hand protection	Wear appropriate chemical resistant glo supplier.	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.	
Skin protection			
Other	Wear appropriate chemical resistant close protective gloves.	r appropriate chemical resistant clothing. Use of an impervious apron is recommended. Wear ective gloves.	

Respiratory protection	None required for consumer use. Respirators may be required for certain laboratory and manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, air-purifying filter, cartridge or canister. Contact a health and safety professional or manufacturer for specific information.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

,	•
Appearance	
Physical state	Liquid.
Form	Deactivated bacterin/toxoids in liquid saline solution, packaged in 50mL bottle.
Color	Opaque Brown
Odor	No data available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
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 avoidContact with incompatible materials. Excessive heat. Keep from freezing.Incompatible materialsStrong oxidizing agents.

Hazardous decomposition products

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.		
Skin contact	May cause an allergic skin reaction.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash. Ingestion of a large quantity may cause vomiting, nausea, dizziness, drowsiness and other systemic effects.		

#### Information on toxicological effects

Acute toxicity	May cause allergic respiratory		
Components	Species	Test Results	
Formaldehyde* (CAS 50-00-0)			
<u>Acute</u>			
Dermal		070	
LD50	Rat	270 mg/kg	
Inhalation			
LC50	Rat	0.578 mg/l, 4 hours	
Oral	Det	100 mm///m	
LD50	Rat	100 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may c		
Serious eye damage/eye irritation	Direct contact with eyes may	cause temporary irritation.	
Respiratory or skin sensitization	ı		
ACGIH sensitization			
FORMALDEHYDE (CAS	50-00-0)	Dermal sensitization Respiratory sensitization	
<b>Respiratory sensitization</b>	Not expected to result in respiratory sensitization.		
Skin sensitization	May cause an allergic skin rea	action.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	May cause cancer. Contains a component that is listed as an IARC 1 (Known Human Carcinogen), a NTP Known Carcinogen and an ACGIH A2 (Suspected Human Carcinogen). In vaccines, the chronic exposure potential is negligible.		
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Formaldehyde* (CAS 50-00-0) 1 Carcinogenic to hu NTP Report on Carcinogens		1 Carcinogenic to humans.	
		Known To Be Human Carcinogen. 001-1053)	
Formaldehyde* (CAS 50-		Cancer	
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Possible hyper sensitization (development of abnormal sensitivity).		
12. Ecological information	l		
Ecotoxicity		s environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environment.	

Components		Species	Test Results		
Formaldehyde* (CAS 50-00-0	))				
Aquatic					
Crustacea	EC50	Water flea (Daphnia pulex)	4.3 - 7.8 mg/l, 48 hours		
Fish	LC50	Striped bass (Morone saxatilis)	10.302 - 16.743 mg/l, 96 hours		
Persistence and degradability	No data is av	ailable on the degradability of this produce	ct.		
Bioaccumulative potential					
	Partition coefficient n-octanol / water (log Kow) Formaldehyde* (CAS 50-00-0) 0.35				
Mobility in soil	Expected to be slightly to moderately mobile 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	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.				
Local disposal regulations	Dispose in accordance with all applicable regulations.				
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.				
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 (see: Disposal instructions).				
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.				

### 14. Transport information

### DOT

Not regulated as dangerous goods.

### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

for nogalatory information	•		
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. Therefore, it can only be used for TSCA exempt purposes such as R&D or veterinary use. FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON ORDER OF LICENSED VETERINARIANS.		
TSCA Section 12(b) Export I	Notification (40 CFR 707, Subj	ot. D)	
Not regulated.			
CERCLA Hazardous Substa	nce List (40 CFR 302.4)		
Formaldehyde* (CAS 50-00-0)		Listed.	
SARA 304 Emergency release	se notification		
Formaldehyde* (CAS 50-00-0)		100 LBS	
OSHA Specifically Regulate	d Substances (29 CFR 1910.1	001-1053)	
Formaldehyde* (CAS 50-00-0)		Cancer Skin sensitization Respiratory sensitization Eye irritation Skin irritation respiratory tract irritation Acute toxicity Flammability	

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Formaldehyde*	50-00-0	100	500		. ,
SARA 311/312 Hazardou chemical	<b>is</b> Yes				
Classified hazard categories		Respiratory or skin sensitization Carcinogenicity			
SARA 313 (TRI reporting Chemical name	1)	C	AS number	% by wt.	
Formaldehyde*		5	50-00-0	≤ 0.5	
er federal regulations					
Clean Air Act (CAA) Sec	tion 112 Hazard	ous Air Polluta	nts (HAPs) List		
Formaldehyde* (CAS Clean Air Act (CAA) Sec	,	dental Release	Prevention (40 CFR 6	8.130)	
Formaldehyde* (CAS	50-00-0)				
Safe Drinking Water Act (SDWA)	Not regulat	led.			
state regulations					
US. Massachusetts RTK	- Substance Lis	st			
Formaldehyde* (CAS					
US. New Jersey Worker	-	/ Right-to-Know	Act		
Formaldehyde* (CAS US. Pennsylvania Worke	,	ity Right-to-Kno	ow Law		
Formaldehyde* (CAS US. Rhode Island RTK	,				
Formaldehyde* (CAS	50-00-0)				
California Propositio					
			w to Formaldehyde* w	which is known to the St	
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#### Country(s) or region

#### Inventory name

#### On inventory (yes/no)\* No

United States & Puerto Rico

#### Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies 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, including date of preparation or last revision

Issue date	23-August-2017
Revision date	12-February-2018
Version #	02
Further information	HMIS® is a registered trade and service mark of the American Coatings Association (ACA).
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0
NFPA ratings	

Disclaimer

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