

SAFETY DATA SHEET

1. Identification

Product identifier	Bar-Vac® CD/T		
Other means of identification			
Product code	APHIS Code – 8304.00, Family Code - 203		
Recommended use	Recommended for the vaccination of healthy, susceptible sheep, goats and cattle against enterotoxemia and tetanus caused by the toxins of Clostridium perfringens Types C and D and Clostridium tetani.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer	Boehringer Ingelheim Animal Health		
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)		
Madiaal Engennenau			
Medical Emergency (24HR):	(866)638-2226		
Non-Emergency calls:	(800) 821-7467		

2. Hazard(s) identification

Label elements

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



	▼ ▼
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	%		
Formaldehyde*		50-00-0	0.5 - 0.9		
Phenol		108-95-2	0.5		
Clostridium perfringens Type C bacterin-toxoid – deactivated	:	NA	Proprietary		
Clostridium perfringens Type D bacterin-toxoid - deactivated		NA	Proprietary		
Clostridium tetani toxoid - deactivated		NA	Proprietary		
Composition comments	* Used to inactivate bacterin and subsequently r maximum remaining amount by percent weight				
4. First-aid measures					
Inhalation	If breathing is difficult, remove to fresh air and ke Call a physician if symptoms develop or persist.	eep at rest in a position c	comfortable for breathing.		
Skin 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.				
Eye contact	Rinse with water. Get medical attention if irritation	on develops and persists.			
Ingestion	Rinse mouth. If ingestion of a large amount does				
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. vomiting, nausea, dizziness, drowsiness and oth		e quantity may cause		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat Symptoms may be delayed. Not for human use. developing anaphylactic (life threatening) reaction unconsciousness, must receive immediate mediate	For use in cattle and swi ons, such as difficulty in b	ine only. Persons		
General information	IF exposed or concerned: Get medical advice/at of the material(s) involved, and take precautions clothing before reuse.	tention. Ensure that med			
5. Fire-fighting measures					
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon	dioxide (CO2).			
Unsuitable extinguishing media	None known.				
Specific hazards arising from the chemical	During fire, gases hazardous to health may be for	ormed.			
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prot	ective clothing must be w	orn 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 consid	er the hazards of other ir	nvolved 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 peopl appropriate protective equipment and clothing d not touch damaged containers or spilled materia Ensure adequate ventilation. Local authorities sl contained. For personal protection, see section	uring clean-up. Avoid bre Il unless wearing approp nould be advised if signifi	eathing mist or vapor. Do riate protective clothing.		
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is w possible. Cover with plastic sheet to prevent spr and place into containers. Following product rec	eading. Absorb in vermic	ulite, dry sand or earth		
	Small Spills: Wipe up with absorbent material (e remove residual contamination.	.g. cloth, fleece). Clean s	surface thoroughly to		
	Never return spills to original containers for re-u	se. For waste disposal, s	ee section 13 of the SDS		
Environmental precautions	Avoid discharge into drains, water courses or or	to 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,
Store locked up. Store in original tightly closed container. Store away from incompatible materials

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 1910.1001-1050)

Components	Type	Value
Formaldehyde* (CAS 50-00-0)	STEL	2 ppm
,	TWA	0.75 ppm
US. ACGIH Threshold Limit		
Components	Туре	Value
Formaldehyde* (CAS 50-00-0)	Ceiling	0.3 ppm
US. NIOSH: Pocket Guide to		
Components	Туре	Value
Formaldehyde* (CAS 50-00-0)	Ceiling	0.1 ppm
	TWA	0.016 ppm
Biological limit values	No biological exposure limits noted for	the ingredient(s).
Appropriate engineering controls	should be matched to conditions. If ap or other engineering controls to mainta	air changes per hour) should be used. Ventilation rates plicable, use process enclosures, local exhaust ventilation, in airborne levels below recommended exposure limits. If hed, maintain airborne levels to an acceptable level.
•	such as personal protective equipme	
Eye/face protection	side shields are recommended. The us	boratory, medical or industrial settings, safety glasses with se of goggles or full face protection may be required setting. Contact a health and safety professional for specific
Skin protection		
Hand protection	Wear appropriate chemical resistant g supplier.	loves. Suitable gloves can be recommended by the glove
Skin protection		
Other	Wear appropriate chemical resistant cl protective gloves.	othing. Use of an impervious apron is recommended. Wear
Respiratory protection	manufacturing tasks if engineering cor recommended exposure limits (where have not been established). Workplace and implementing respirator usage. All performance. In the United States of A instituted to assure compliance with O	birators may be required for certain laboratory and htrols do not maintain airborne concentrations below applicable) or to an acceptable level (where exposure limits e risk assessments should be completed before specifying I respirators must conform to specifications for efficiency and merica, if respirators are used, a program should be SHA Standard 29 CFR 1910.134. Respirator type: iate, air-purifying filter, cartridge or canister. Contact a ufacturer for specific information.
Thermal hazards	Wear appropriate thermal protective cl	othing, when necessary.
General hygiene considerations	and before eating, drinking, and/or sm	e measures, such as washing after handling the material oking. Routinely wash work clothing and protective ontaminated work clothing should not be allowed out of the

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 exp	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 avoid	Contact with incompatible materials. Excessive heat. Keep from freezing.		
Incompatible materials	Strong oxidizing agents.		
Hazardous decomposition	Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx).		

11. Toxicological information

products

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 and skin reactions.		

	Species	s	Test Results
ormaldehyde* (CAS 50-00-0)			
Acute			
Dermal	Det		
LD50	Rat		270 mg/kg
Inhalation LC50	Rat		0.578 mg/l, 4 hours
Oral	i tat		0.570 mg/l, 4 hours
LD50	Rat		100 mg/kg
Skin corrosion/irritation		I skin contact may cause temporary irritati	
Serious eye damage/eye rritation	-	tact with eyes may cause temporary irritation	
Respiratory or skin sensitization	on		
ACGIH sensitization			
FORMALDEHYDE (CA	S 50-00-0)	Dermal sensitizatior Respiratory sensitiz	
Respiratory sensitization	Not expec	ted to result in respiratory sensitization.	
Skin sensitization	•	e an allergic skin reaction.	
Germ cell mutagenicity		vailable to indicate product or any compor c or genotoxic.	nents present at greater than 0.1% are
Carcinogenicity	Carcinoge	e cancer. Contains a component that is lis en), a NTP Known Carcinogen and an AC the chronic exposure potential is negligibl	GIH A2 (Suspected Human Carcinogen). In
IARC Monographs. Overal	I Evaluation	of Carcinogenicity	
Formaldehyde* (CAS 5 NTP Report on Carcinoger	,	1 Carcinogenic to h	umans.
Formaldehyde* (CAS 5	,	Known To Be Huma	an Carcinogen.
OSHA Specifically Regulation	ted Substanc	es (29 CFR 1910.1001-1050)	
Formaldehyde* (CAS 5		Cancer	an davalan mantal affacta
Formaldehyde* (CAS 5 Reproductive toxicity	This produ	Cancer uct is not expected to cause reproductive	or developmental effects.
Formaldehyde* (CAS 5 Reproductive toxicity Specific target organ toxicity - single exposure	This produ Not classif	Cancer uct is not expected to cause reproductive of fied.	or developmental effects.
Formaldehyde* (CAS 5 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	This produ Not classif	Cancer uct is not expected to cause reproductive of fied.	or developmental effects.
Formaldehyde* (CAS 5 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure	This produ Not classif	Cancer uct is not expected to cause reproductive of fied.	or developmental effects.
Formaldehyde* (CAS 5) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard	This produ Not classif Not classif	Cancer uct is not expected to cause reproductive of fied. fied.	
Formaldehyde* (CAS 5) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects	This produ Not classif Not classif Not an asp Possible h	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard.	
Formaldehyde* (CAS 5 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatio	This produ Not classif Not classif Not an asp Possible h Dn The produ	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard. hyper sensitization (development of abnorn uct is not classified as environmentally haz	mal sensitivity). zardous. However, this does not exclude the
Formaldehyde* (CAS 5 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatio	This produ Not classif Not classif Not an asp Possible h Dn The produ	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard. hyper sensitization (development of abnorn uct is not classified as environmentally haz	mal sensitivity).
Formaldehyde* (CAS 5) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity	This produ Not classif Not classif Not an asp Possible h Dn The produ possibility	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard. hyper sensitization (development of abnorn ict is not classified as environmentally haz that large or frequent spills can have a ha	mal sensitivity). zardous. However, this does not exclude the armful or damaging effect on the environment
Formaldehyde* (CAS 5 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity Components	This produ Not classif Not classif Not an asp Possible h Dn The produ possibility	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard. hyper sensitization (development of abnorn ict is not classified as environmentally haz that large or frequent spills can have a ha	mal sensitivity). zardous. However, this does not exclude the armful or damaging effect on the environment
Formaldehyde* (CAS 5 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity Components Formaldehyde* (CAS 50-00	This produ Not classif Not classif Not an asp Possible h Dn The produ possibility	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard. hyper sensitization (development of abnorn ict is not classified as environmentally haz that large or frequent spills can have a ha	mal sensitivity). zardous. However, this does not exclude the armful or damaging effect on the environment
Formaldehyde* (CAS 5) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity <u>Components</u> Formaldehyde* (CAS 50-00) Aquatic	This produ Not classif Not classif Not an asp Possible h The produ possibility	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard. hyper sensitization (development of abnorn ict is not classified as environmentally haz that large or frequent spills can have a ha Species	mal sensitivity). zardous. However, this does not exclude the armful or damaging effect on the environment. Test Results
Formaldehyde* (CAS 5) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Components Formaldehyde* (CAS 50-00) Aquatic Crustacea Fish	This produ Not classif Not classif Not an asp Possible h The produ possibility -0) EC50 LC50	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard. hyper sensitization (development of abnorn uct is not classified as environmentally haz that large or frequent spills can have a ha Species Water flea (Daphnia pulex)	mal sensitivity). zardous. However, this does not exclude the armful or damaging effect on the environment Test Results 4.3 - 7.8 mg/l, 48 hours 10.302 - 16.743 mg/l, 96 hours
Formaldehyde* (CAS 5) Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity <u>Components</u> Formaldehyde* (CAS 50-00) Aquatic Crustacea Fish Persistence and degradability Bioaccumulative potential Partition coefficient n-octa	This produ Not classif Not classif Not an asp Possible h The produ possibility -0) EC50 LC50 No data is	Cancer uct is not expected to cause reproductive of fied. fied. piration hazard. hyper sensitization (development of abnorn ict is not classified as environmentally haz that large or frequent spills can have a har Species Water flea (Daphnia pulex) Striped bass (Morone saxatilis) available on the degradability of this proc og Kow)	mal sensitivity). zardous. However, this does not exclude the armful or damaging effect on the environment. Test Results 4.3 - 7.8 mg/l, 48 hours 10.302 - 16.743 mg/l, 96 hours
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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

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 Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Formaldehyde* (CAS 50-00-0)

Cancer Skin sensitization Respiratory sensitization Eye irritation Skin irritation respiratory tract irritation Acute toxicity Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Formaldehyde* (CAS 50-00-0)

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	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 Haza chemical	ardous Yes				

Chemical name		CAS number	% by wt.
Formaldehyde*		50-00-0	0.5 - 0.9
ther federal regulations			
Clean Air Act (CAA) Sectio	n 112 Hazardous Air F	Pollutants (HAPs) List	
Formaldehyde* (CAS 50 Clean Air Act (CAA) Sectio		elease Prevention (40 C	FR 68.130)
Formaldehyde* (CAS 50)-00-0)		
Safe Drinking Water Act (SDWA)	Not regulated.		
S state regulations	WARNING: This pro birth defects or other		known to the State of California to cause cancer and
US - California Propos	ition 65 - Carcinogens	& Reproductive Toxici	ty (CRT): Listed substance
Formaldehyde* (CA US. Massachusetts RT			
Formaldehyde* (CA	S 50-00-0)		
US. New Jersey Worke	er and Community Rig	ht-to-Know Act	
Formaldehyde* (CA			
US. Pennsylvania Wor	-	ight-to-Know Law	
Formaldehyde* (CA	,		
US. Rhode Island RTK			
Formaldehyde* (CA	(\$ 50-00-0)		
ternational Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	,	of Chemical Substances	(AICS) No
Canada	Domestic Substance	es List (DSL)	No
Canada	Non-Domestic Subst	tances List (NDSL)	No
China	Inventory of Existing	Chemical Substances in	China (IECSC) No
Europe	European Inventory	of Existing Commercial C	Chemical No

United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	
*A "Vaa" indicates this product as	mplice with the investory requirements edministered by the governing equation (a)	

Taiwan Chemical Substance Inventory (TCSI)

*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).

European List of Notified Chemical Substances (ELINCS)

Inventory of Existing and New Chemical Substances (ENCS)

Philippine Inventory of Chemicals and Chemical Substances

16. Other information, including date of preparation or last revision

(PICCS)

Substances (EINECS)

New Zealand Inventory

Existing Chemicals List (ECL)

Issue date	23-August-2017
Revision date	-
Version #	01
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

Europe

Japan

Korea

New Zealand

Philippines

Taiwan



No

No

No

No

No

No

No

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