

Revision date: 07-Dec-2006

Version: 1.4

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Animal Health Pfizer Inc 235 East 42nd Street New York, NY 10017 Poison Control Center Phone: 1-866-531-8896 Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Pfizer Ltd, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

Emergency telephone number: ChemSafe (24 hours): +44 (0)208 762 8322

# Material Name: Clostridium Chauvoei-Septicum-Novyi-Sordelli-Perfringens Types C&D Bacterin-Toxoid

Trade Name:Ultrabac(R) 7Chemical Family:MixtureIntended Use:Veterinary Vaccine

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous

Ingredient	CAS Number	EU EINECS List	%
Formaldehyde	50-00-0	200-001-8	0.1 - 1.0%

Ingredient	CAS Number	EU EINECS List	%
Clostridium perfringens type C	NOT ASSIGNED	Not listed	*
Aluminum hydroxide gel	21645-51-2	244-492-7	*
Water, purified	7732-18-5	231-791-2	>90%
Clostridium chauvoei	NOT ASSIGNED	Not listed	*
Clostridium septicum	NOT ASSIGNED	Not listed	*
Clostridium sordellii	NOT ASSIGNED	Not listed	*
Clostridium perfringens type D	NOT ASSIGNED	Not listed	*
Clostridium novyi	NOT ASSIGNED	Not listed	*

**Additional Information:** 

#### \* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

# 3. HAZARDS IDENTIFICATION Appearance: Signal Word: Liquid solution in multiple-dose vials WARNING Statement of Hazard: Contains formaldehyde: potential cancer hazard May cause sensitization of the skin and respiratory system May cause eye, skin and respiratory tract irritation Additional Hazard Information: Hazard Information:

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Short Term: EU Indication of danger:	May cause eye and skin irritation May cause allergic skin reaction In the event of accidental injection, an allergic reaction may occur. If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate therapy instituted. Irritant
EU Hazard Symbols:	
EU Risk Phrases:	R43 - May cause sensitization by skin contact.
Note:	This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

# 4. FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.
Skin Contact:	Wash skin with soap and water. If irritation occurs or persists, get medical attention.
Ingestion:	Get medical attention. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

# **5. FIRE FIGHTING MEASURES**

Extinguishing Media:	As for primary cause of fire.
Hazardous Combustion Products:	Not known
Fire Fighting Procedures:	Dike and collect water used to fight fire.
Fire / Explosion Hazards:	Not applicable
Additional Information:	This product is a nonflammable aqueous solution. This material is not expected to support combustion.

# 6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions:	Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.	
Measures for Cleaning / Collecting:	Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.	
Measures for Environmental Protections:	Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.	

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Additional Consideration for Large Spills:	Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.			
7. HANDLING AND STORAG	E			
General Handling:		Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use appropriate personal protective equipment.		
Storage Conditions:	Store under refrige	Store under refrigeration in closed container.		
Storage Temperature:	2-7°C	2-7°C		
8. EXPOSURE CONTROLS /	PERSONAL PRO	TECTION		
Formaldehyde				
OSHA - Final PELS - TWAs:		= 0.75 ppm TWA		
OSHA - Specifically Regulate	ed Chemicals	= 0.5 ppm Action Level		
		= 0.75 ppm TWA		
		= 2 ppm STEL Irritant and potential cancer hazard - see 29 CFR 1910.1048		
ACGIH Ceiling Threshold Li	nit:	= 0.3 ppm Ceiling		
ACGIH - Sensitizer Designat		Sensitizer		
Australia STEL		= 2 ppm STEL		
		= 2.5 mg/m <sup>3</sup> STEL		
Australia TWA		= 1 ppm TWA = 1.2 mg/m³ TWA		
See exposure limits for compo	nent (s) listed above.			
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. Exposure monitoring may be necessary to determine requirements.			
Personal Protective Equipment:				
Hands: Eyes: Skin:	Safety glasses or g Wear protective clo	thing when working with large quantities. Wash hands and arms thoroughly		
Respiratory protection:	after handling this material. In the event of a spill where the applicable Occupational Exposure Limit (OEL) may be exceeded, wear an appropriate respirator with a protection factor sufficient to control exposur below the OEL.			
9. PHYSICAL AND CHEMICA				
S. THI GIGAL AND CHEMICA				

Physical State:	Liquid Solution in multiple-dose vials	Color:	No data available.
Molecular Formula:	Mixture	Molecular Weight:	Mixture
Solubility:	Soluble: Water (based on components)	)	
pH:	7.0 +/- 1.5		
Boiling Point (°C):	>100		
Vapor Pressure (kPa):	Expected to be negligible		
Specific Gravity:	1.0 +/-0.2		
-			

Flash Point (Liquid) (°C):

Non-flammable

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#### 10. STABILITY AND REACTIVITY

Stability: Conditions to Avoid: Incompatible Materials:	Stable 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 metals.
Hazardous Decomposition Products:	None expected under normal conditions.
Polymerization:	Will not occur

#### 11. TOXICOLOGICAL INFORMATION

**General Information:** The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms. The primary hazards are due to the formaldehyde content.

#### Acute Toxicity: (Species, Route, End Point, Dose)

Formaldehyde Rat Oral LD50 800 mg/kg

#### Aluminum hydroxide gel

 Rat
 Intraperitoneal
 LD50
 150
 mg/kg

 Inhalation Acute Toxicity
 Not determined for this mixture. However, irritation may occur based on effects of individual components.

 Ingestion Acute Toxicity
 See Acute toxicity table.

Irritation / Sensitization: (Study Type, Species, Severity)

#### Formaldehyde

Eye IrritationRabbitSevereSkin IrritationRabbitModerate SevereSkin Irritation / SensitizationThis product contains formaldehyde which is considered to be a skin sensitizer.

#### Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

#### Formaldehyde

Formaldehvde

90 Day(s) Dog Inhalation Not Sp	pecified Lungs
90 Day(s) Rat Inhalation Not Sp	ecified Lungs
90 Day(s) Monkey Inhalation No	t Specified Lungs
9 Day(s) Rat Inhalation 15 ppm	LOAEL Respiratory system
Subchronic Effects	Rats exposed to 15 ppm formaldehyde vapor for six hours/day for up to nine days showed an
Chronic Effects/Carcinogenicity	acute cell degeneration, necrosis and inflammation in the nasal cavities. Inhalation exposure to formaldehyde for up to 90 days produced interstitial inflammation in the lungs of dogs, rats, monkeys, rabbits and guinea pigs. In rats, several inhalation studies have shown that formaldehyde induces squamous- cell carcinomas and necrosis of the nasal cavity. Formaldehyde also showed cocarcinogenic effects when inhaled, ingested, or applied to the skin of rodents.

#### Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Embryo / Fetal Development	Mouse	Oral 185 mg/kg/c	lay Not teratogenic, Maternal toxicity
Embryo / Fetal Development	Rat	Inhalation 40 ppm	Not Teratogenic, Maternal Toxicity

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Reproductive Effects Teratogenicity	Not considered to be a reproductive hazard. Formaldehyde has been tested by inhalation, oral, and dermal routes and has not been shown to be teratogenic in animals.		
Genetic Toxicity: (Study Type, Cell Ty	/pe/Organism, Result)		
In Vitro Sister Chromatid Exchange	Bacteria Positive lent Positive Rodent Positive specified Positive Formaldehyde has been reported to be active in many short-term tests, both in vitro and in vivo.		
Carcinogenicity: (Duration, Species, I	Route, Dose, End Point, Effect(s))		
Formaldehyde 2 Year(s) Rat Inhalation 6 ppm 2 Year(s) Mouse Inhalation 15 p	LOAEL Tumors pm LOAEL Tumors		
Carcinogen Status:	Contains formaldehyde: potential cancer hazard.		
Formaldehyde IARC: NTP: OSHA:	Group 1 Reasonably Anticipated To Be A Carcinogen Present		

12. ECOLOGICAL INFORMATION			
Environmental Overview:	The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided.		

3. DISPOSAL CONSIDERATIONS				
Disposal Procedures:	Dispose of waste in accordance with all applicable laws and regulations.			
Formaldehyde RCRA - U Series Wastes	waste number U122			

# 14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

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15. REGULATORY INFORMA	TION	
EU Symbol: EU Indication of danger:	Xi Irritant	
-	intern	
EU Risk Phrases:	R43 - May cause sensit	ization by skin contact.
	,	
EU Safety Phrases:	S24 - Avoid contact with S37 - Wear suitable glo	
<b>OSHA Label:</b> WARNING		
Contains formaldehyde: potential cano May cause sensitization of the skin an May cause eye, skin and respiratory tr	d respiratory system	
Canada - WHMIS: Classifications		
WHMIS hazard class: Class D, Division 2, Subdivision A		
Aluminum hydroxide gel		
Inventory - United States TSC	CA - Sect. 8(b)	Present
Australia (AICS): EU EINECS List		Present 244-492-7
EU EINECS LISI		244-492-7
Formaldehyde	roporting	= 0.1 % de minimis concentration
CERCLA/SARA 313 Emission CERCLA/SARA Hazardous Su		= 100 lb final RQ
and their Reportable Quantiti		= 45.4 kg final RQ
CERCLA/SARA - Section 302 TPQs	Extremely Hazardous	= 500 lb TPQ
CERCLA/SARA - Section 302 Substances EPCRA RQs	Extremely Hazardous	= 100 lb EPCRA RQ
California Proposition 65	d Chamicala	carcinogen, initial date 1/1/88 (gas) = 0.5 ppm Action Level
OSHA - Specifically Regulate	u Chemicais	= 0.5 ppm Action Level = 0.75 ppm TWA = 2 ppm STEL Irritant and potential cancer hazard - see 29 CFR 1910.1048
Inventory - United States TSC Australia (AICS):	CA - Sect. 8(b)	Present
Standard for the Uniform Sch	eduling	Present Schedule 2
for Drugs and Poisons: EU EINECS List	-	Schedule 6 200-001-8

### Water, purified Inventory - United States TSCA - Sect. 8(b)

Present

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Australia (AICS): EU EINECS List	Present 231-791-2
16. OTHER INFORMATION	
Reasons for Revision:	Updated Section 3 - Hazard Identification. Updated Section 6 - Accidental Release Measures. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory Information.
Prepared by:	Toxicology and Hazard Communication Pfizer Global Environment, Health, and Safety
Pfizer Inc believes that the informatic	on contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it

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End of Safety Data Sheet