### **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 078912822

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

078912858 078912891

# SAFETY DATA SHEET



#### 1. Identification

Product identifier	Clostridium chauvoei-septicum-haemolytic Bacterin-Toxoid	cum-novyi-sordellii-perfringens Types C&D
Other means of identification		
Synonyms	UltraChoice® 8 * UltraChoice™ 8	
Recommended use	Veterinary vaccine	
<b>Recommended restrictions</b>	Not for human use	
Manufacturer/Importer/Supplier/Distributor information		
Company Name (US)	Zoetis Inc.	
	10 Sylvan Way	
	Parsippany, New Jersey 07054 (USA)	
Rocky Mountain Poison and Drug Center	1-866-531-8896	
Product Support/Technical Services	1-800-366-5288	
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300	
	International CHEMTREC (24 hours): +1-703-	-527-3887
Company Name (EU)	Zoetis Belgium S.A.	
	Mercuriusstraat 20	
	1930 Zaventem	
	Belgium	
Emergency telephone number	International CHEMTREC (24 hours): +1-703	-527-3887
Contact E-Mail	VMIPSrecords@zoetis.com	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Sensitization, respiratory	Category 1A
	Sensitization, skin	Category 1A

Environmental hazards	
OSHA defined hazards	
Label elements	



Carcinogenicity

Not classified. Not classified.

Danger
May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer.
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.
If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse.

Category 1A

Storage	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	Direct contact with eyes may cause temporary irritation. In the event of accidental injection, an allergic reaction may occur.

#### 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water, purified		7732-18-5	>90
Aluminum potassium sulfate		7784-24-9	<5
Formaldehyde		50-00-0	0.2
Clostridium chauvoei		NOT ASSIGNED	*
Clostridium haemolyticum		NOT ASSIGNED	*
Clostridium novyi		NOT ASSIGNED	*
Clostridium perfringens type C		NOT ASSIGNED	*
Clostridium perfringens type D		NOT ASSIGNED	*
Clostridium septicum		NOT ASSIGNED	*
Clostridium sordellii		NOT ASSIGNED	*
Saponin		8047-15-2	##
Composition comments	## Trace * Non-hazardous Ingredients In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.		
4. First-aid measures			
Inhalation	Move to fresh air. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. For breathing difficulties, oxygen may be necessary.		

Skin contactRemove contaminated clothing immediately and wash skin with soap and water. Get medical<br/>attention if irritation develops and persists. In case of eczema or other skin disorders: Seek<br/>medical attention and take along these instructions. Wash contaminated clothing before reuse.Eye contactRinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove<br/>contact lenses, if present and easy to do.IngestionRinse mouth. Call a physician immediately. Do not induce vomiting without advice from poison<br/>control center. Never give anything by mouth to a victim who is unconscious or is having

Most important<br/>symptoms/effects, acute and<br/>delayedDirect contact with eyes may cause temporary irritation. Exposed individuals may experience eye<br/>tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash. Difficulty<br/>in breathing.Indication of immediate<br/>medical attention and special<br/>treatment neededProvide general supportive measures and treat symptomatically. Keep victim under observation.<br/>Symptoms may be delayed. Saponins have little toxicity for humans when ingested but have<br/>hemolytic effects when injected intravenously.General informationFor personal protection, see section 8 of the SDS. IF exposed or concerned: Get medical<br/>advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn 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 consider the hazards of other involved materials.

convulsions.

#### **General fire hazards**

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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	Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Avoid release to the environment.
	Large Spills: Stop the flow of material, if this is without risk. 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.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid accidental injection. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Store in a cool, dry place out of direct sunlight. @ 2 - 7°C (36 - 45°F). Do not freeze. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Specifically Reg Components	gulated Substances (29 CFR 1910.100 Type	1-1050) Value	
Formaldehyde (CAS 50-00-0)	STEL	2 ppm	
,	TWA	0.75 ppm	
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
Aluminum potassium sulfate (CAS 7784-24-9)	TWA	1 mg/m3	Respirable fraction.
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Aluminum potassium sulfate (CAS 7784-24-9)	TWA	2 mg/m3	
Formaldehyde (CAS 50-00-0)	Ceiling	0.1 ppm	
	TWA	0.016 ppm	
logical limit values	No biological exposure limits noted for	No biological exposure limits noted for the ingredient(s).	
ntrol banding approach	Not available.		
propriate engineering trols	Ensure adequate ventilation, especially in confined areas. Good general ventilation (typically 10 a 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. General ventilation normally adequate.		

#### Individual protection measures, such as personal protective equipment

Eye/face protection	If contact is likely, safety glasses with side shields are recommended.
Skin protection Hand protection	Wear protective gloves. Wear impervious gloves if skin contact is possible.
Other	Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure.
Thermal hazards	Not applicable.
General hygiene considerations	Observe any medical surveillance requirements. 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	Liquid Solution in multiple-dose vials
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	6 - 8
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	Non-flammable
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.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
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.
Specific gravity	0.8 - 1.2

#### 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. Protect from sunlight. Store at 2-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do not freeze.
Incompatible materials	Strong oxidizing agents. This material can be denatured or inactivated by a variety of organic solvents, salts or heavy metals.
Hazardous decomposition products	No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.
<b>Skin contact</b> Formaldehyde	May cause an allergic skin reaction. Species: Rabbit Severity: Moderate to Severe
<b>Eye contact</b> Formaldehyde	Direct contact with eyes may cause temporary irritation. Species: Rabbit Severity: Severe
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and	Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Difficulty in breathing. May cause an allergic skin reaction.

toxicological characteristics Dermatitis. Rash.

#### Information on toxicological effects

Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel. Components Species **Test Results** Formaldehyde (CAS 50-00-0) Acute Dermal LD50 Rabbit 270 mg/kg Inhalation LC50 Mouse 0.414 mg/L, 4 hours 0.48 mg/L, 4 hours Rat Oral LD50 Rat 100 mg/kg Chronic Inhalation LOAEL Mouse 15 ppm, 2 years Tumors Rat 15 ppm, 90 days Respiratory system 6 ppm, 2 years Tumors Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation. irritation Eye Contact Formaldehyde Species: Rabbit Severity: Severe Respiratory or skin sensitization **ACGIH** sensitization FORMALDEHYDE (CAS 50-00-0) Dermal sensitization

		Respiratory sensitization	
<b>Respiratory sensitization</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Skin sensitization	May cause an allergic skin reaction.		
Skin sensitization			
Formaldehyde		Species: Guinea Pig Severity: Positive	
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	product or any components present at greater than 0.1% are	
Mutagenicity			
Formaldehyde		In Vitro Bacterial Mutagenicity (Ames) Result: Positive Species: Bacteria	
		In Vitro Chromosome Aberration Result: Positive Species: Rodent	
		In Vitro Sister Chromatid Exchange Result: Positive Species: Rodent	
		In Vivo Chromosome Aberration Result: Positive Species: Not specified	
Carcinogenicity	May cause cancer.		
<b>·</b> ·	Evaluation of Carcinogenicity		
Formaldehyde (CAS 50-0		1 Carcinogenic to humans. 001-1050)	
Formaldehyde (CAS 50-0	0-0) gram (NTP) Report on Carcin	Cancer	
Formaldehyde (CAS 50-0		Known To Be Human Carcinogen.	
Reproductive toxicity		o cause reproductive or developmental effects.	
. Developmental effects			
Formaldehyde		185 mg/kg/day Embryo / Fetal Development, Not teratogenic Maternal toxicity Species: Mouse Organ: Oral	
		40 ppm Embryo / Fetal Development, Not Teratogenic Maternal Toxicity Species: Rat Organ: Inhalation	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		
Further information	May cause allergic respiratory and skin reactions. In the event of accidental injection, an allergic reaction may occur. The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms. Saponins have little toxicity for humans when ingested but have hemolytic effects when injected intravenously.		
12. Ecological information			
Ecotoxicity		s environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environment. ent.	

Components		Species	Test Results
Formaldehyde (CAS 50-00-0	))		
	EC50	Daphnia magna (Water Flea)	42 mg/L, 24 Hours
	LC50	Oncorhynchus mykiss (Rainbow Trout)	118 ppm, 96 Hours
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
rsistence and degradability	No data is a	vailable on the degradability of this product.	
oaccumulative potential	No data available.		
obility in soil	No data available.		
her adverse effects		verse environmental effects (e.g. ozone dep docrine disruption, global warming potential	

#### 13. Disposal considerations

Disposal instructions	Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. 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	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.		
	Notification (40 CFR 707, Subpt	D)	
Not regulated.			
CERCLA Hazardous Substa	INCE LIST (40 CFR 302.4)		
Formaldehyde (CAS 50-00-0)		Listed.	
SARA 304 Emergency relea	se notification		
Formaldehyde (CAS 50-	0-0)	100 LBS	
OSHA Specifically Regulate	d Substances (29 CFR 1910.100	1-1050)	
Formaldehyde (CAS 50-	00-0)	Cancer	
		Skin sensitization	
		Respiratory sensitization	
		Eye irritation	
		Skin irritation	
		respiratory tract irritation	

Acute toxicity

#### 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
SABA 302 Extremely hazar	dous 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 Hazard chemical	ous No				
SARA 313 (TRI reporti	ng)				
Chemical name		C	AS number	% by wt.	
Formaldehyde		50	0-00-0	0.2	
her federal regulations					
Clean Air Act (CAA) So	ection 112 Hazard	ous Air Pollutai	nts (HAPs) List		
Formaldehyde (CA Clean Air Act (CAA) Se	ection 112(r) Accid	dental Release	Prevention (40 CFR 6	8.130)	
Formaldehyde (CA					
Safe Drinking Water A (SDWA)	ct Not regulat	ed.			
state regulations	WARNING	· This product or	ntaina a ahamiaal kaa	we to the State of Calife	rnia ta aguag gangar
US - California Pro Formaldehyde	oposition 65 - CRT (CAS 50-00-0)	: Listed date/Ca	ntains a chemical kno arcinogenic substand Listed: January 1,	<b>:e</b> 1988	
US - California Pro Formaldehyde US. California. Ca subd. (a))	oposition 65 - CRT (CAS 50-00-0)	: Listed date/Ca	arcinogenic substand Listed: January 1,	ce	
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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	03-12-2014
Revision date	05-05-2017
Version #	03

Disclaimer	Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.