SAFETY DATA SHEETS

This SDS packet was issued with item: 078928800

N/A

SAFETY DATA SHEET



1. Identification

Product identifier	ULTRA Duramune Lyme
Other means of identification	
Item Code	AV6828
Synonyms	Borrelia Burgdorferi Bacterin
Recommended use	Veterinary Vaccine
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Company Name	Elanco Animal Health
	2500 Innovation Way
	Greenfield, IN 46140
	US
Phone:	1 877 Elancol (1 877 352 6261)
Emergency Telephone:	1-877-Elanco1 (1-877-352-6261) Elanco Product Technical Support / Human or Animal Exposure Reporting:
Emergency relephone.	1-888-545-5973
Email:	elanco_sds@elanco.com
Transportation Emergency Telephone:	CHEMTREC: 1-800-424-9300 (Outside U.S. 1-703-527-3887)
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Formaldehyde		50-00-0	<= 0.074
Thimerosal		54-64-8	<= 0.01
Composition comments	Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.		
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.		

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Free contract	Dince with water. Oct medical attention if initation develope and persists		
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention.		
Most important symptoms/effects, acute and	None known.		
delayed			
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.		
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media	Not available.		
Specific hazards arising from the chemical	Not applicable.		
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.		
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Not available.		
Methods and materials for	Prevent entry into waterways, sewer, basements or confined areas.		
containment and cleaning up	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.		
	Never return spills to original containers for re-use.		
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.		
7. Handling and storage			
Precautions for safe handling	Observe good industrial hygiene practices.		
Conditions for safe storage, including any incompatibilities	Store in the dark between 35 - 45 °F (2 - 7 °C). Avoid freezing.		

8. Exposure controls/personal protection

Occupational exposure limits

Components	Substances (29 CFR 1910.100 Type	Value	
Formaldehyde (CAS 50-00-0)	STEL	2 ppm	
	TWA	0.75 ppm	
US. OSHA Table Z-2 (29 CFR 1910	.1000)		
Components	Туре	Value	
Thimerosal (CAS 54-64-8)	Ceiling	0.04 mg/m3	
	TWA	0.01 mg/m3	
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm	
Thimerosal (CAS 54-64-8)	STEL	0.03 mg/m3	
	TWA	0.01 mg/m3	

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US. NIOSH: Pocket Guide to Components	Туре	Value	
Formaldehyde (CAS 50-00-0)	Ceiling	0.1 ppm	
	TWA	0.016 ppm	
Thimerosal (CAS 54-64-8)	STEL	0.03 mg/m3	
	TWA	0.01 mg/m3	
ological limit values	No biological exposure limits noted for	r the ingredient(s).	
posure guidelines			
US - California OELs: Skin	designation		
Thimerosal (CAS 54-64-8		e absorbed through the skin.	
US - Tennessee OELs: Skin	designation		
Thimerosal (CAS 54-64-		e absorbed through the skin.	
US ACGIH Threshold Limit	-		
Thimerosal (CAS 54-64-64-64-64-64-64-64-64-64-64-64-64-64	3) Chemical Hazards: Skin designation	e absorbed through the skin.	
Thimerosal (CAS 54-64-	3) Can b	e absorbed through the skin.	
propriate engineering ntrols	Ensure adequate ventilation, especially in confined areas.		
dividual protection measures	such as personal protective equipm Safety glasses.	ent	
Skin protection	Curcty glaboool.		
Hand protection	Wear appropriate chemical resistant	aloves.	
Other			
	Wear suitable protective clothing.		
Respiratory protection Thermal hazards	In case of insufficient ventilation, wear suitable respiratory equipment. Not available.		
eneral hygiene nsiderations	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.		

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid
Color	Opaque
Odor	Odorless
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 available.
Upper/lower flammability or expl	osive 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.

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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.

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transpo
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on toxicological effects

Acute toxicity			
Components	Species	Test Results	
Formaldehyde (CAS 50-00-0)			
Acute			
Inhalation			
LC50	Rat	10500 mg/m³, 4 hours	
Oral			
LD50	Rat	640 mg/kg	
Thimerosal (CAS 54-64-8)			
Acute			
Oral			
LD50	Rat	75 mg/kg	
Skin corrosion/irritation	Rabbit: Corrosive. (Formaldehyde) No skin irritation. (0.1% Thimerosal) Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation	Rabbit: Corrosive. (Formaldehyde) Slight irritation. (0.1% Thimerosal) Based on available data, the classification criteria are not met.		
Respiratory or skin sensitizatio	n		
ACGIH sensitization			
FORMALDEHYDE (CAS	,	ermal sensitization espiratory sensitization	
Respiratory sensitization	Exposure to formaldehyde may cause respiratory sensitization in some individuals or aggravate pre-existing asthmatic conditions. Based on available data, the classification criteria are not met.		
Skin sensitization	May cause an allergic skin reaction. (Formaldehyde) Risk of sensitization or allergic reactions among sensitive individuals. (Thimerosal) Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Result in genetic toxicity assays (in vitro and in vivo): Mixed results (Formaldehyde) Result in genetic toxicity assays (in vitro and in vivo): Negative (Thimerosal) Based on available data, the classification criteria are not met.		

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Carcinogenicity	May cause cancer. (Formaldehyde) Based on available data, the classification criteria are not met.		
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Formaldehyde (CAS 50-0 OSHA Specifically Regulate	00-0) 1 Carcinogenic to humans. d Substances (29 CFR 1910.1001-1052)		
Formaldehyde (CAS 50-0 US. National Toxicology Pro	00-0) Cancer ogram (NTP) Report on Carcinogens		
Formaldehyde (CAS 50-0	00-0) Known To Be Human Carcinogen.		
Reproductive toxicity	No effects identified in animal studies. (Formaldehyde) May damage fertility or the unborn child. (Thimerosal) Based on available data, the classification criteria are not met.		
Specific target organ toxicity - single exposure	May cause respiratory irritation. (Formaldehyde) Based on available data, the classification criteria are not met.		
Specific target organ toxicity - repeated exposure	No significant target organ toxicity reported. (Formaldehyde) May cause damage to organs through prolonged or repeated exposure. (Thimerosal) Based on available data, the classification criteria are not met.		
Aspiration hazard	Not available.		

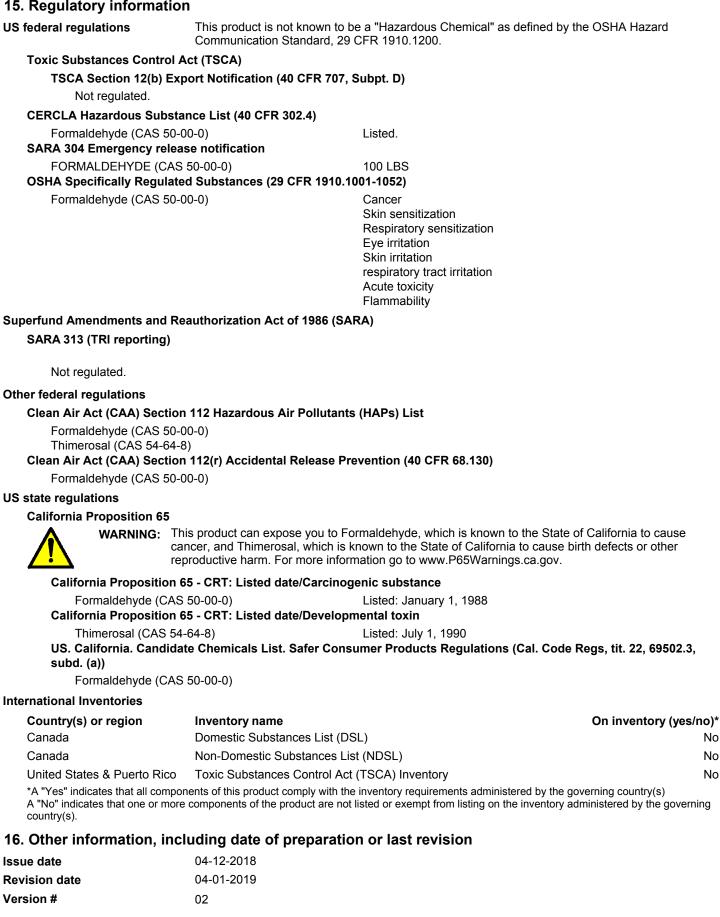
12. Ecological information

Ecotoxicity

Components		Species	Test Results	
Formaldehyde (CAS 50-00-0)				
Aquatic				
Acute				
Crustacea	EC50	Water flea (Daphnia magna)	29 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promelas)	24.1 mg/l, 96 hours	
Chronic				
Fish	NOEC	Medaka, high-eyes (Oryzias latipes)	> 48 mg/l, 28 days	
Thimerosal (CAS 54-64-8)				
Aquatic				
Acute				
Fish	LC50	Bullhead, catfish (Ictalurus sp.)	7.5 mg/l, 24 hours	
Persistence and degradability	dability No data is available on the degradability of this product.			
Bioaccumulative potential	No data available.			
Partition coefficient n-octa Formaldehyde	nol / water (log	g Kow) 0.35		
lobility in soil	No data ava	No data available.		
Other adverse effects	Not available.			
3. Disposal consideratio	ons			
Disposal instructions	Inactivate all unused contents before disposal. Dispose of contents/container in accordance with local/regional/national/international regulations.			
4. Transport informatior	1			
ОТ				
Not regulated as dangerous	goods.			
ATA				
Not regulated as dangerous	goods.			
MDG				
Not regulated as dangerous	goods.			
ransport in bulk according to Annex II of MARPOL 73/78 and he IBC Code	Not establis	hed.		

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15. Regulatory information



Disclaimer

LEG: Lilly Exposure Guideline. STEL: Short-Term Exposure Limit. TWA: Time Weighted Average

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For additional information contact: Elanco Animal Health 0011+1-877-352-6261 0011+1-800-428-4441