# Elanco

## SAFETY DATA SHEET

#### 1. Identification

Product identifier Lepto Shield 5

Other means of identification

Item Code AV4235

**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-Elanco1 (1-877-352-6261)

**Emergency Telephone:** Elanco Product Technical Support / Human or Animal Exposure Reporting:

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 None known.

classified (HNOC)

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.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

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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

delayed

None known.

**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.

and precautions for firefighters
General fire hazards

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Not available.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

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 original tightly closed container. Keep refrigerated

Keep refrigerated: 2° to 7° C (35° to 45° F).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value
Formaldehyde (CAS 50-00-0)	STEL	2 ppm
	TWA	0.75 ppm
US. OSHA Table Z-2 (29 CFR 1910.1000)	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 Values		
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 Chemical Hazards Value Components Type Formaldehyde (CAS Ceiling 0.1 ppm 50-00-0) **TWA** 0.016 ppm **STEL** 0.03 mg/m3 Thimerosal (CAS 54-64-8) **TWA** 0.01 mg/m3

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US - California OELs: Skin designation

MERCURY ALKYLS, AS HG (CAS 54-64-8) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

MERCURY, AS HG (CAS 54-64-8) Skin designation applies.

**US - Tennessee OELs: Skin designation** 

Thimerosal (CAS 54-64-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

MERCURY, ALKYL COMPOUNDS, AS HG Can be absorbed through the skin.

(CAS 54-64-8)

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

MERCURY (ORGANO) ALKYL COMPOUNDS (AS HG) Can be absorbed through the skin.

(CAS 54-64-8)

Appropriate engineering

Ensure adequate ventilation, especially in confined areas.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Liquid.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not available.

General hygiene considerations

Physical state

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** 

Liquid **Form** Color Opaque Odor Not available. **Odor threshold** Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available. range Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not available. (%) Not available. Flammability limit - upper

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Explosive limit - lower (%)

SDS US

Not available.

Explosive limit - upper (%)Not available.Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

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 stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No haz

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Formaldehyde (CAS 50-00	D-0)	
<u>Acute</u>		
Inhalation		
LC50	Rat	10500 mg/m³, 4 hours
Oral		
LD50	Rat	640 mg/kg
Thimerosal (CAS 54-64-8)		
<u>Acute</u>		
Oral		
LD50	Rat	75 mg/kg

Skin corrosion/irritation Rabbit: Corrosive. (Formaldehyde)

Based on available data, the classification criteria are not met.

Serious eye damage/eye Rabbit: Corrosive. (Formaldehyde)

irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

**ACGIH** sensitization

FORMALDEHYDE (CAS 50-00-0)

Dermal sensitization

Respiratory 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)

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)

Based on available data, the classification criteria are not met.

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SDS US

Carcinogenicity May cause cancer. (Formaldehyde)

Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

FORMALDEHYDE (CAS 50-00-0)

1 Carcinogenic to humans.

MERCURY AND INORGANIC MERCURY COMPOUNDS 3 Not classifiable as to carcinogenicity to humans.

(CAS 54-64-8)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

FORMALDEHYDE (CAS 50-00-0) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

FORMALDEHYDE (CAS 50-00-0) Known To Be Human Carcinogen.

Reproductive toxicity No effects identified in animal studies. (Formaldehyde)

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) Based on available data, the classification criteria are not met.

Not available. **Aspiration hazard** 

#### 12. Ecological information

#### **Ecotoxicity**

Components		Species	Test Results
Formaldehyde (CAS 5	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 54-6	64-8)		
Aquatic			
Acute			
Fish	LC50	Bullhead, catfish (Ictalurus sp.)	7.5 mg/l, 24 hours

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

0.35 Formaldehyde

Mobility in soil No data available. Other adverse effects Not available.

#### 13. Disposal considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

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

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard **US federal regulations** 

Communication Standard, 29 CFR 1910.1200.

Material name: Lepto Shield 5 SDS US 5/7

#### **Toxic Substances Control Act (TSCA)**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

ELEMENTAL MERCURY (CAS 54-64-8)

1.0 % One-Time Export Notification only.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Formaldehyde (CAS 50-00-0) Listed.
Thimerosal (CAS 54-64-8) Listed.

SARA 304 Emergency release notification

FORMALDEHYDE (CAS 50-00-0) 100 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

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 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

FORMALDEHYDE (CAS 50-00-0) MERCURY COMPOUNDS (CAS 54-64-8)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

FORMALDEHYDE (SOLUTION) (CAS 50-00-0)

#### **US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

#### **California Proposition 65**

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

FORMALDEHYDE (GAS) (CAS 50-00-0) Listed: January 1, 1988

#### California Proposition 65 - CRT: Listed date/Developmental toxin

MERCURY AND MERCURY COMPOUNDS Listed: July 1, 1990

(CAS 54-64-8)

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

FORMALDEHYDE (CAS 50-00-0) Mercury (inorganic) (CAS 54-64-8)

#### International Inventories

country(s).

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

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

 Issue date
 09-07-2017

 Revision date
 08-27-2019

Version # 03

**List of abbreviations** Ceiling: Short Term Exposure Limit Ceiling value.

EC50: Effective Concentration 50%. LC50: Lethal Concentration 50%.

LD50: Lethal Dose 50%.

NOEC: No observed effect concentration. STEL: Short-Term Exposure Limit. TWA: Time Weighted Average Value.

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<sup>\*</sup>A "Yes" indicates that all components of this product comply 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

#### **Disclaimer**

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

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

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