

## SAFETY DATA SHEET

## Forte VII

## Section 1. Identification

**Product identifier** : 124000000797 **Product code** Other means of : AV6737

identification

Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Animal vaccine. **Uses advised against** : None known.

: Elanco Canada Ltd. **Company Name** 37 McCarville Street,

Charlottetown, PE, C1E 2A7

: Not Available

Telephone number

**Emergency telephone** 

number

: CHEMTREC International: 00 1 703-527-3887 (24 hours)

: elanco sds@elancoah.com

**Transportation Emergency** 

telephone number

: CANUTEC (24 HR) 1-613-996-6666

## Section 2. Hazard identification

Classification of the substance or mixture : ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity:

48.8%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal

toxicity: 48.8%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation

toxicity: 48.8%

**GHS label elements** 

**Hazard pictograms** 



Signal word : Danger

**Hazard statements** : H304 - May be fatal if swallowed and enters airways.

**Precautionary statements** 

**Prevention** : Not applicable.

: P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or Response

doctor. Do NOT induce vomiting.

**Storage** : P405 - Store locked up.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label

elements

: None known.

Hazards not otherwise

classified

: None known.

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## Section 2. Hazard identification

Other hazards

Accidental injection may cause local swelling, irritation or necrosis at the injection site.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
White mineral oil (petroleum)	White mineral oil, petroleum; White spirits; Mineral oil; Paraffin oil; White mineral oil; Paraffinum liquidum; OILS, WHITE MINERAL, PETROLEUM; petroleum mineral oil	≥30 - ≤60	8042-47-5
Sorbitan, (Z)-9-octadecenoate (2:3)	Sorbitan, (9Z)-9-octadecenoate (2:3); Sorbitan sequioleate; Sorbitan sesquioleate; Sorbitan, sesquioleate; serbitan sesquioleate; Sorbitan, monohexadecanoate; Sorbitan aliphatic-carboxylate; Sorbitan (Z) -9-octadecenoate (2:3); Sorbitan ester	≥5 - ≤10	8007-43-0

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

## **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

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## Section 4. First-aid measures

**Skin contact**: No known significant effects or critical hazards.

**Ingestion**: May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

**Ingestion** : Adverse symptoms may include the following:

nausea or vomiting

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : To the Doctor: This product contains mineral oil. Accidental injection with this oil-

based product, even in small quantities, can cause intense swelling which may, for example, result in ischaemic necrosis and the loss of a digit. Expert PROMPT, surgical attention is required and may necessitate early incision and irrigation of the injected area, especially where there is involvement of finger pulp or tendon.

**Specific treatments**: In case of accidental self-injection of oil emulsion vaccines, get medical attention

immediately.

SEEK IMMEDIATE MEDICAL TREATMENT at nearest Hospital Emergency Room even if only a very small amount is injected, as failure to treat may result in the mineral oil adjuvant causing sterile abscess and/or loss of affected finger or thumb. If pain persists for more than 12 hours after medical examination, seek additional

medical advice.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## See toxicological information (Section 11)

## Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing

media

: None known.

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: In a fire or if heated, a pressure increase will occur and the container may burst.

 Decomposition products may include the following materials: carbon dioxide

: Use an extinguishing agent suitable for the surrounding fire.

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

Special protective equipment for fire-fighters

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

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## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

**Control parameters** 

**Occupational exposure limits** 

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## Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
White mineral oil (petroleum)	CA British Columbia Provincial (Canada, 3/2022). [Oil mist - mineral, severely refined]  TWA: 1 mg/m³ 8 hours.  CA Alberta Provincial (Canada, 6/2018). [Oil]  8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist  15 min OEL: 10 mg/m³ 15 minutes. Form: Mist  CA Quebec Provincial (Canada, 6/2021). [Mineral oil (mist)]  TWAEV: 5 mg/m³ 8 hours. Form: mist  STEV: 10 mg/m³ 15 minutes. Form: mist

#### **Biological exposure indices**

None known.

# Appropriate engineering controls

- **Environmental exposure** controls
- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

## **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

**Physical state** : Liquid.

Color : Brown. / Gray. Odor : Not available. : Not available. **Odor threshold** Hq : Not available. **Melting point/freezing point** : Not available. **Boiling point, initial boiling** : Not available.

Flash point

point, and boiling range

		Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method	
Sorbitan monooleate, ethoxylated	>93	>199.4					
White mineral oil (petroleum)	>112	>233.6	ISO 2719				
Sorbitan, (Z) -9-octadecenoate (2:3)	225	437					

**Evaporation rate** : Not available. **Flammability** : Not available. Lower and upper explosion : Not available. limit/flammability limit

Vapor pressure

	Vapoi	r <mark>Press</mark> ui	re at 20°C	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
White mineral oil (petroleum)	0.08	0.011	OECD 104			

Method

ASTM E 659

°C

325 to 355

617 to 671

**Relative vapor density** Not available. **Relative density** : Not available. Not available. Solubility(ies) Solubility in water : Not available. Partition coefficient: n-: Not applicable.

octanol/water

**Decomposition temperature** Not available. **Viscosity** : Not available. Flow time (ISO 2431) : Not available.

**Ingredient name** 

White mineral oil (petroleum)

**Particle characteristics** 

**Auto-ignition temperature** 

Median particle size : Not applicable.

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## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## Section 11. Toxicological information

## Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
White mineral oil (petroleum) Sorbitan, (Z) -9-octadecenoate (2:3)	LD50 Oral LD50 Oral	Rat Rat	>5000 mg/kg >39.8 g/kg	-

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sorbitan, (Z) -9-octadecenoate (2:3)	Eyes - Mild irritant	Rabbit	-	3 mg	-
(200)	Skin - Mild irritant	Rabbit	-	450 ug	-

### **Sensitization**

Not available.

#### Mutagenicity

Not available.

## **Carcinogenicity**

Not available.

#### Classification

Product/ingredient name	IARC	NTP	ACGIH
White mineral oil (petroleum)	3	-	A4

## **Reproductive toxicity**

_	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
White mineral oil (petroleum)	-	Negative	-	Rat	Oral: >4350 mg/kg NOAEL	-

### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

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## **Section 11. Toxicological information**

Not available.

### **Aspiration hazard**

Product/ingredient name	Result		
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		

Information on the likely

routes of exposure

: Not available.

## Potential acute health effects

Eye contact
 Inhalation
 Skin contact
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

**Ingestion** : Adverse symptoms may include the following:

nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : I

: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

**Acute toxicity estimates** 

N/A

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## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
White mineral oil (petroleum)	Acute LC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss	96 hours

## Persistence and degradability

#### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
White mineral oil (petroleum)	>6	-	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

## **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	TDG Classification	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

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## Section 15. Regulatory information

**Canadian lists** 

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

**Inventory list** 

Canada : Not determined.

## Section 16. Other information

**History** 

Date of issue/Date of

revision

**Version** 

: No previous validation

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: 0.01

: 3/23/2023

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

## Procedure used to derive the classification

Classification	Justification
ASPIRATION HAZARD - Category 1	Expert judgment

References : Not available.

▼ Indicates information that has changed from previously issued version.

### **Notice to reader**

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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