

# Nilvax®

## Section 1: Identification of the Substance and Supplier

<b>Product name</b>	<b>Nilvax</b>
<b>Recommended use</b>	Combined clostridial vaccine and drench for sheep
<b>Company details</b>	<b>Schering-Plough Animal Health Limited</b> <b>33 Whakatiki Street, Upper Hutt 5018, New Zealand</b>  <b>Phone: 0800 800 543 Fax: 0800 808 100</b> <b>Website: www.coopersonline.co.nz</b> <b>Hours 8 am – 5 pm, Mon – Fri</b>
<b>Emergency telephone</b>	<b>0800 764 766 (0800 POISON) 24 hours human health</b> <b>0800 243 622 (0800 CHEMCALL) 24 hours</b>
<b>Date of preparation</b>	April 2019

## Section 2: Hazards Identification

<b>Hazard classifications</b>	6.1E: Acute toxicant 6.5B: Contact sensitiser 6.6B: Mutagen 6.9B: Target organ systemic toxicant
<b>GHS Pictogram:</b>	
<b>Signal word</b>	Warning
<b>Hazard statement</b>	H303: May be harmful if swallowed. H317: May cause an allergic skin reaction. H341: Suspected of causing genetic defects from repeated oral exposure. H373: May cause damage to the liver, blood and the haematopoietic systems through prolonged or repeated oral exposure at high doses.
<b>Prevention statement</b>	P102: Keep out of reach of children. P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing mist. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves, protective clothing and eye or face protection. P281: Use personal protective equipment as required.
<b>Response statement</b>	P101: If medical advice is needed, have product container or label at hand. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P308 + P313: If exposed or concerned: Get medical advice. P314: Get medical advice/attention if you feel unwell. P321: See first aid instruction on the registered label. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse.
<b>Storage</b>	P405: Store locked up.
<b>Disposal</b>	P501: Dispose of product, packaging and waste at an approved landfill or other approved facility.

**Section 3: Composition/Information on Ingredients**

Chemical name	CAS number	Concentration
<i>C. chauvoei</i> whole cell culture (inactivated)	-	Varies
<i>C. novyi</i> Type B toxoid (inactivated)	-	Varies
<i>C. perfringens</i> Type D toxoid (inactivated)	-	Varies
<i>C. septicum</i> toxoid (inactivated)	-	Varies
<i>C. tetani</i> toxoid (inactivated)	-	Varies
Levamisole Phosphate	32093-35-9	10%
Thiomersal (Preservative)	54-64-8	<1%

**Section 4: First Aid Measures**
**Necessary first aid measures**

**ACCIDENTAL SELF-INJECTION** Obtain medical attention - show this SDS. Accidental self injection may lead to an inflammatory response and medical advice should be sought on the management of deep injections, particularly those near a joint or associated with bruising. If possible the application of gentle squeezing pressure with absorbent material (e.g. facial tissues) at the injection site will swab up unabsorbed vaccine. Strong squeezing of the site should be avoided. The damaged area should be thoroughly cleansed and a topical antiseptic applied.

**SKIN CONTACT** While wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a doctor.

**EYE CONTACT** Immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.

**INGESTION** Rinse mouth and drink a glass of water. Do not induce vomiting unless under the direction of a qualified medical professional or Poison Control Centre. If symptoms persist, consult a doctor.

**INHALATION** Remove to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a doctor.

**Required instructions**

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.

**Notes for medical personnel**

**Accidental self-injection:** Treat symptomatically. Some risk of hypersensitivity from injection. Contains safety tested inactivated bacterial toxins. Contamination of the needle must be considered.

**Inhalation:** remove to fresh air & provide oxygen if breathing is difficult

**Workplace facilities**

Emergency showers and eyewashes may be warranted depending on quantity and type of use.

### Section 5: Fire Fighting Measures

<b>Type of hazard</b>	Not classified as flammable
<b>Fire hazard properties</b>	Not applicable
<b>Regulatory requirements</b>	Not applicable
<b>Extinguishing media and methods</b>	Carbon dioxide (CO <sub>2</sub> ), extinguishing powder or water spray
<b>Hazchem code</b>	Not applicable
<b>Recommended protective clothing</b>	Wear full protective clothing and self-contained breathing apparatus (SCBA).

### Section 6: Accidental Release Measures

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>Environmental Precautions</b>	Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes. Avoid release to the environment.
<b>Emergency procedures</b>	Wear chemical resistant gloves and overalls, facemask or goggles. Prevent further spillage. Adsorb spilled product and place in sealable container for disposal. Wash down affected area with water plus detergent. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal.

### Section 7: Handling and Storage

<b>Precautions for safe handling</b>	Avoid contact with skin, eyes, and mucosa. Keep containers adequately sealed during material transfer, transport, or when not in use. See Section 8 (Exposure Controls) for additional guidance.
<b>Regulatory requirements</b>	Emergency response plan required where quantities greater than 1000 L are present.
<b>Handling practices</b>	Avoid contact with skin. Keep containers adequately sealed during material transfer, transport, or when not in use.
<b>Certified handlers</b>	Not required.
<b>Conditions for safe storage</b>	Store in original container. Keep out of reach of children.
<b>Store site requirements</b>	Store between 2°C and 8°C. DO NOT FREEZE.
<b>Packaging</b>	PG III (Limited Quantities – Schedule 4)

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## Section 8: Exposure Control/Personal Protection

<b>Occupational exposure limits</b>	No WES is set for this substance at this time.
<b>Application in the workplace</b>	Ensure adequate ventilation. Keep container sealed when not in use.
<b>Exposure standards outside the workplace</b>	No TEL is set for this substance at this time No EEL is set for this substance at this time.
<b>Personal protection</b>	Wear chemical resistant gloves, facemask or goggles.
<b>Engineering controls</b>	The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

## Section 9: Physical and Chemical Properties

Appearance	Clear to turbid, colourless to white, liquid
Boiling Point	100°C
Melting/Softening point	Not applicable
Vapour Pressure	Not determined
Specific Gravity	1.0
Solubility (H <sub>2</sub> O)	Soluble
Percent Volatiles	Not determined
Evaporation Rate	Not determined

## Section 10: Stability and Reactivity

<b>Stability of the substance</b>	Stable under normal conditions
<b>Conditions to avoid</b>	Avoid high temperatures
<b>Material to avoid</b>	Avoid food products
<b>Hazardous decomposition products</b>	Carbon oxides (CO <sub>x</sub> )

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## Section 11: Toxicological Information

### Acute effects for individual ingredients only

ORAL	Levamisole: LD50 294.12 mg/kg bw [EPA NZ] Thiomersal: LD50 40 mg/kg/bw (rat) [EPA NZ]
TEL	No TEL is set for this substance at this time.

### Chronic/long term effects for individual ingredients only

Levamisole: Levamisole induced chromosome gaps and breaks in human lymphocytes in vitro and in vivo after volunteers were given 2 mg/kg. No chromosomal damage occurred in mice given 2.5 mg/kg subcutaneously. Levamisole; ADI of 0-6 µg/kg based on LOAEL of 1.25 mg/kg/day haemolytic effects in dogs, safety factor of 200. MRLs of 100 µg/kg in muscle, kidney and fat, and 100 µg/kg for liver.

Thiomersal has been documented as a sensitiser. [All references from NTP]

## Section 12: Environmental Information

### Effects for individual ingredients only

EEL	No EEL is set for this substance at this time.
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## Section 13: Disposal Considerations

### Disposal information

#### Disposal

Dispose of unused contents in a suitable landfill. Where possible, dispose of unused product through AgRecovery Chemicals. Avoid contamination of any water source or the environment with product or empty container.

#### Container Disposal

Dispose of empty container by puncturing and burying in a suitable landfill. Where possible, recycle through AgRecovery. Do NOT burn.

#### Needle Disposal

Discarded needles should immediately be placed in a designated and appropriately labelled 'sharps' container.

### Reference

Current version of NZS 8409 Management of Agrichemicals.

## Section 14: Transport Information

### Relevant information

Not classified as a dangerous good for transport

## Section 15: Regulatory Information

### Regulatory status

HSNO Approval Code: HSR002294  
For a full listing of controls see [www.epa.govt.nz](http://www.epa.govt.nz)

ACVM registration number: A003832  
For conditions of registration see [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

### Section 16: Other Information

**Additional information** Nilvax is a registered trademark.

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