

Section 1 - Identification of The Material and Supplier

Bioproperties Pty Ltd 36 Charter St Ringwood, Vic 3134	Phone: 03 9871 2000 (office hours) Fax: 03 9876 0556 Technical Support: 03 9871 2003 (office hours)	
Chemical nature:	The active ingredient consists of living attenuated <i>Salmonella</i> Typhimurium (Strain STM-1) cells contained within a freeze-dried pellet. The attenuated strain of STM has been modified to make it non-pathogenic to poultry.	
Trade Name:	Vaxsafe [®] ST Vaccine (living)	
APVMA Code:	40728	
Product Use:	For the control of Salmonella Typhimurium in poultry.	
Creation Date:	November, 2019	
This version issued:	January, 2025 and is valid for 5 years from this date.	
Poisons Information Centre: Phone 13 11 26 from anywhere in Australia		

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Not classified as hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

Not classified as genetically modified according to the criteria of Office of the Gene Technology Regulator.

SUSMP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated

GHS Signal word: NONE. Not hazardous.

PREVENTION

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing.

P281: Use personal protective equipment as required.

RESPONSE

P353: Rinse skin or shower with water.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P308 + P313: IF EXPOSED or CONCERNED: Get medical advice/attention.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P411: Store below -18°C (deep freeze).

DISPOSAL

P501: Disinfect prior to disposal. Refer to manufacturer's recommendation for disposal of waste and residues.

Emergency Overview

Physical Description & Colour: Freeze-dried pellet in a 10mL or 20 mL glass vial. The label is white with an orange stripe and the closure has a silver crimp. Each vial contains 1000, 2000, 3000, 4000, 5000 or 10000 doses. Odour: No odour data.

Major Health Hazards: No significant risk factors have been found for this product.

Section 3 - Composition/Information on Ingredients					
Ingredients	CAS No	Conc.	TWA (mg/m ³)	STEL (mg/m ³)	
Salmonella Typhimurium (Strain STM-1) Other non-hazardous ingredients	not set not set	10 ^{7.0} cfu/dose to 100%	not set not set	not set not set	

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

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Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been harmed by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is always available. Have this SDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. **Skin Contact:** Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye Contact: Flush eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Injection: If accidental self-injection occurs, seek medical advice. Wash the wound under clean running water to remove any unabsorbed vaccine. Cover the wound with a band-aid, or suitable alternative, to stop any penetration of dirt. Inflammation of the area may occur. Seek medical or paramedical advice as to the extent and management of the tissue damaged, bring this SDS with you. Check your tetanus immunisation status. If this product has been mixed with an oil-based vaccine, consult their SDS, seek medical attention immediately.

Advice to doctor: The product consists of a suspension of living, attenuated *Salmonella* Typhimurium cells that have been freeze dried in a buffer that contains complex proteins that may be capable of causing allergy. It contains no known living microbes other than the vaccine itself. There is no specific treatment for exposure to Vaxsafe[®] ST. If this product has been mixed with an oil-based vaccine, consult their MSDS, complications may arise if treatment is delayed.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Fire decomposition products from this product may be irritating if inhaled.

Extinguishing Media: Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Section 6 - Accidental Release Measures

Accidental release: Treat the affected area with warm water (to help inactivate the *Salmonella*) containing disinfectant solution (e.g. detergent -based disinfectant) and mop up while preventing run off from entering drains. In the unlikely event of a significant quantity of material entering drains, advise emergency services.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store packages of this product below -18°C (deep freeze).

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS 1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS 2210**.

SWA Exposure Limits

STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems. **Ventilation:** No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean, and that vapours and mists are minimised.

Eye Protection: Eye protection such as protective glasses or goggles is recommended.

TWA (mg/m³)

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Product Name: Vaxsafe[®] ST Vaccine (living) Page: 3 of 4 Version 11, issued: January 2025

Skin Protection: This product may be shipped in dry ice. When unpacking, wear gloves designed for use in freezers. This product is not harmful and normally no special skin protection is necessary. However, contact with all chemical products should be avoided and suitable gloves (preferably elbow-length) should be used when skin contact is likely.

Protective Material Types: Wear waterproof gloves that are thin enough to allow good sensitivity of touch. **Respirator:** Provided the operator is working in a well-ventilated area, a respirator is not necessary. Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties:

Physical Description & Colour:	Freeze-dried pellet in a 10 mL or 20 mL glass vial. The label is white with an orange stripe and the closure has a silver crimp. Each vial contains 1000, 2000, 3000, 4000, 5000 or 10000 doses.
Odour:	No data.
Boiling Point:	Not applicable.
Freezing/Melting Point:	Decomposes before melting.
Volatiles:	No data.
Vapour Pressure:	No data.
Vapour Density:	Not applicable.
Specific Gravity:	No data.
Water Solubility:	Miscible.
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	Not applicable.
Coeff Oil/Water Distribution:	No data
Viscosity:	Not applicable.
Autoignition Temperature:	Not applicable - does not burn.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf-life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably at -18°C (deep freeze). Containers should be kept dry. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. **Incompatibilities:** Acids, bases, oxidising agents.

Fire Decomposition: No specific data. Based on composition of proteins and fats, the following might be expected: Carbon dioxide, and if combustion is incomplete, carbon monoxide and possibly smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulphur compounds, also water.

Section 11 - Toxicological Information

Local Effects: Target Organs: No data available to indicate local effects. There are no data indicating any particular target organs.

Classification of Hazardous Ingredients

Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Potential Health Effects

Inhalation:

Ingredient

Short Term Exposure: Available data indicates that this product is not harmful. **Long Term Exposure:** No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful in normal use.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: This product is unlikely to cause anything more than mild discomfort.

Long Term Exposure: No data are available for health effects associated with long term eye exposure.

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Ingestion:

Short Term Exposure: Significant oral exposure is unlikely. This product may be mildly irritating to mucous membranes but is unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

Injection:

Short Term Exposure: Needlestick injuries can occur when manual vaccination techniques are used. Resultant injuries are due to the effects of the penetration of the needle, its cleanliness at the time of penetration and the volume injected. The inoculum itself is not regarded as toxic.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

Insufficient data to be sure of status. Anticipated to not be an environmental hazard.

Section 13 - Disposal Considerations

Disposal: Discard unused vaccine and empty vaccine bottles into a disinfectant solution. Dispose of any such inactivated, unused vaccine and empty containers by wrapping in paper and putting in garbage. In cases of spillage, soak up the liquid with an absorbent sponge or cloth and incinerate and treat the surface with a disinfectant solution.

Section 14 - Transport Information

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:	
ADG Code AICS SWA	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition) Australian Inventory of Chemical Substances Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
STEL	Short Term Exposure Limit
TWA	Time Weighted Average (airborne concentration over eight hours)
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS.

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2023)

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