

# MSDS - Material Safety Data Sheet

## Vaxsafe<sup>®</sup> ST Vaccine (living)

**BIOPROPERTIES Pty. Ltd.**

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### WORK HAZARD ASSESSMENT

Not classified as hazardous to health according to criteria of Worksafe Australia

### PRODUCT IDENTIFICATION

**Product Name:** Vaxsafe<sup>®</sup> ST Vaccine (living)  
**Other Names:** STM-1 Vaccine, *Salmonella typhimurium*, Salmonella vaccine.  
**BPL Product Code:** 9201 STM  
**AVPMA No.** 40728  
**UN Number:** None allocated.  
**Dangerous Goods Class/Subsidiary Risk:** None allocated.  
**Hazchem Code:** None allocated.  
**Poisons Schedule Number:** None allocated.  
**Product Type:** Poultry vaccine.  
**Chemical Family:** The active ingredient consists of living attenuated *Salmonella 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.  
**Use:** For the control of *Salmonella typhimurium* in poultry.  
**Method of Use:** Administered by coarse spray at one day of age, and in drinking water at 14 days of age.

### PHYSICAL DESCRIPTION AND PROPERTIES

**Appearance:** Freeze-dried pellet in a 20 mL glass vial. The label is white with an orange stripe and the closure has a silver crimp. Each vial contains either 1000, 2000 or 5000 doses.

**Melting Point:** Not relevant.  
**Boiling Point:** Not relevant.  
**Vapour Pressure:** Not relevant.  
**Volatile Materials:** Not available.  
**Flashpoint:** Not relevant.  
**Flammability Limits:** Not relevant.  
**Solubility in Water:** Fully miscible.  
**pH:** Not available.

### INGREDIENTS

Chemical Name	CAS #	Proportion	Worksafe Exposure Limits	
			ES-TWA mg/m <sup>3</sup>	ES-STEL mg/m <sup>3</sup>
<i>Salmonella typhimurium</i> (Strain STM-1) contained in medium and other ingredients determined to be non-hazardous.	None allocated	100%	None allocated	None allocated

This is a commercial product and the exact ratio of components may vary. Trace quantities of impurities are also likely.

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### HEALTH HAZARD INFORMATION

#### HEALTH EFFECTS

- Acute:** No evidence for humans.  
**Swallowed:** No evidence for humans.  
**Eye:** No evidence for humans.  
**Skin:** No evidence for humans.  
**Inhaled:** No evidence for humans.  
**Chronic:** No evidence for humans.

#### FIRST AID

- Swallowed:** Rinse mouth with clean, fresh water and swallow some clean water.  
**Eye:** Hold eyes open and gently wash material from them with clean running water. Ensure irrigation under eyelids by lifting them. Do not attempt to remove contact lenses unless trained to do so.  
**Skin:** Wash affected area with soap and water. If irritation persists, seek medical advice.  
**Inhaled:** If inhaled in any way, remove person to fresh air and observe until recovered. If irritation or other symptoms persist, seek medical advice.

**First Aid Facilities:** No special facilities are required.

#### 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<sup>®</sup> ST.

#### PRECAUTIONS FOR USE

**Exposure Standards:** No time weighted average (TWA) has been set. There is a blanket recommendation of 10 mg/m<sup>3</sup> for inhaled dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use.

**Engineering Controls:** In industrial situations, concentrations below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe airborne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

#### Personal Protection:

- Respirator Type:** Wear a dust mask when dissolving the pellet in fluid before use. Wear dust mask or respirator during spraying operations sufficient to protect against inhalation of aerosols.
- Glove Type:** Wear general purpose household rubber gloves to give skin protection against the vaccine but use gloves that are thin enough to allow good sensitivity of touch.
- Eye Protection:** Industrial safety glasses giving protection against splash should be worn as a general measure. See AS 1336 and AS/NZS 1337.
- Clothing:** Wear overalls (see AS 2919) and boots capable of protecting against penetration of liquids (see AS/NZS 2210 - Occupational Protective Footwear).

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**Other:** Always wash your hands after using the product.  
Remove obviously-contaminated clothing without delay and wash it and other personal protective equipment before storing or re-use.

### Flammability:

**Fire Hazards:** Not flammable under conditions of use.  
**Sources of Ignition:** Not relevant.  
**Advice:**

## SAFE HANDLING INFORMATION

### Storage and Transport:

**Location:** Store in a deep freezer.  
**Security:** Keep the vaccine in a secure place, away from food and children.  
**Temperature Conditions:** Store at below -18°C (deep freezer)  
**Protection from Weather/Sunlight:** Keep out of direct sunlight during handling and use.  
**Storage Incompatibilities:** Store separately to foodstuffs.  
**Type of Container/ Package:** 20 mL glass vial with a rubber stopper and silver crimp closure.

### Spills and Disposal:

**Clean up Spills/Leaks:** Treat the affected area with hot water (to help inactivate the *Salmonella*) containing disinfectant solution (e.g. chlorine based bleach) 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.  
**Precautions for Clean Up Crew:** Take care not to burn yourself or others via splashes of boiling water. Do not use the disinfectant until without observing its requirements.  
**Disposal of Containers:** Discarded ampoules/containers should be immediately placed in a designate and appropriately labeled 'biologicals' container.  
**Disposal Method:** Mop up liquids and sweep up broken containers. Dispose of solid waste by wrapping in paper prior to disposal in compliance with local, State and Federal regulations.

### Fire and Explosion Hazard:

**Hazards of Use/Storage:** Not relevant.  
**List of Dangerous Decomposition or Combustion Products:** Not relevant.  
**Fire-fighting Recommendations:** Not relevant.  
**Types of Extinguisher/Fire-fighting Agents:** Not relevant.  
**Precautions:** Not relevant.  
**Protective Clothing:** Not relevant.  
**Reactivity:** Not relevant.  
**Hazchem Code:** None allocated.

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### OTHER INFORMATION

This MSDS has been prepared in accord with the Worksafe Australia "National Code for Preparation of Material Safety Data Sheets", 1994.

### CONTACT POINT

**Title:** Technical & Marketing Manager

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Poisons Information Centre: 13 11 26 (anywhere in Australia)

**READ ALL LABELS AND INSTRUCTION LEAFLETS BEFORE USING THIS PRODUCT**

### WARRANTY AND DISCLAIMER

Vaxsafe<sup>®</sup> ST Vaccine (living) has been tested and meets safety and potency standards according to the Standards required by the AVPMA. BIOPROPERTIES Pty Ltd accepts no responsibility for events arising from the misuse or mishandling of the product. BIOPROPERTIES Pty Ltd gives no warranty (express or implied) with respect to the product, including without limitation any warranty as to completeness, merchantability or fitness for a particular purpose. Under no circumstances shall BIOPROPERTIES Pty Ltd be liable for indirect, special consequential or punitive damages.