



Typh-Vax Oral[®]

MATERIAL SAFETY DATA SHEET

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IMPORTANT NOTICE This Material Safety Data Sheet (MSDS) is prepared by CSL Limited in accordance with the Australian National Occupational Health & Safety Commission National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2011(2003)]. The information contained herein must not be altered or deleted. Additional information may be appended to the MSDS, but it must be marked clearly to indicate that it is not part of the original.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Typh-Vax[®] (Oral Typhoid Vaccine)

Other Names Not applicable

Manufacturer's Product Code 04180801

Use For the active immunisation against typhoid in adults and children above 6 years of age.

Supplier Name CSL Limited (ABN 99 051 588 348)

Address 45 Poplar Road, Parkville, Victoria 3052, Australia

Telephone +61 03 9389 1911

Emergency Telephone 03 9389 1984 (24hr)

2. HAZARDS IDENTIFICATION

**Not classified as hazardous according to the criteria of NOHSC
Not classified as a dangerous good by the criteria of the ADG Code**

3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Chemical Name:</i>	<i>CAS Number:</i>	<i>Proportion:</i>
Salmonella typhi strain Ty21a	-	At least 2000 million live bacteria
Ethylene glycol	107-21-1	<0.3%
Other non-hazardous ingredients	-	up to 100%

4. FIRST AID MEASURES

Eye Hold eye open, wash with clean, gently running water for at least 15 minutes. Seek medical attention in event of irritation.

Swallowed Wash out mouth thoroughly with water. If exposed subject is fully conscious, give plenty of water to drink. If irritation or discomfort develops seek medical attention.

Skin Remove contaminated clothing. Flush exposed area with water.

Inhaled If powder is present remove person from exposure. If breathing is difficult or ceases, ensure and maintain ventilation, obtain medical attention and give oxygen as appropriate. The exposed subject should be kept warm and at rest. Obtain medical attention in cases of known or possible over exposure, or if hypersensitivity occurs.

Aggravated Medical Conditions In individuals hypersensitive to Typh-Vax[®], may precipitate an acute allergic reaction.

Symptoms of an allergic reaction may include shortness of breath; swelling of the face, lips, tongue, or other parts of the body; skin rash, itching or hives.

Advice To Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard Toxic gases may be emitted from fires involving large amounts (multiple packages/pellets) of this product and its packaging, therefore self-contained breathing apparatus and full protective equipment are recommended for fire fighters. Where possible, contain and collect fire-fighting water for later disposal.

Fire Extinguishing Media No restrictions.

Hazchem Code None allocated.

6. ACCIDENTAL RELEASE MEASURES

Minor Spills

- Clean up spill immediately.
- Wear protective gloves.
- Take care to avoid excessive dust during clean up.
- If dust is present wear a minimum P1 filter grade dust mask and safety glasses.
- Place spilled material in clean, dry, sealed container for disposal.
- Wash area with copious amounts of water.

Major Spills

- Wear protective gloves and safety glasses.
- Take care to avoid excessive dust during clean up.
- If dust is present wear a minimum P1 filter grade dust mask.
- Collect material and seal in labelled drums for disposal.
- Wash area with copious amounts of water.

7. HANDLING AND STORAGE

- Store between 2°C and 8°C in dry conditions – do not freeze.
- Store as per Schedule 4 pharmaceutical.
- Protect from light.
- Limit all unnecessary personal contact.
- Avoid puncturing or crushing capsules.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards No exposure limits set by NOHSC or ACGIH

Engineering Controls None under normal operating conditions.

Personal Protection No special equipment needed when handling unbroken capsules by non-allergic individuals. Otherwise, for potentially moderate exposure or if the powder has spilled from damaged capsules:

- Protective gloves
- Safety Glasses
- P1 filter grade dust mask.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information, consult your Occupational Health and Safety Adviser.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Powder contained within a salmon/white bicolour gelatine capsule.

Odour Odourless

pH 7.0-7.8

Boiling Point/Melting Point Not determined

Vapour Pressure Not determined

Vapour Density Not determined

Specific Gravity Not determined

Flashpoint Not determined

Flammability Limits Not determined

Solubility in Water Not determined

10. STABILITY AND REACTIVITY

Reactivity Not known to be incompatible with other materials.

Stability Stable under anticipated storage and handling conditions (refer section 7).

Decomposition Products Not determined

11. TOXICOLOGICAL INFORMATION

Eye May cause minor irritation following direct contact with powder.

Swallowed Adverse reactions are infrequent and generally mild. In the reported trials the following adverse effects were noted – constipation, abdominal cramps, diarrhoea, nausea, vomiting, anorexia, fever, headache and urticarial exanthema.

In hypersensitive individuals, may precipitate an acute allergic reaction. Severe allergic reactions will usually occur within the first few hours of ingestion. Symptoms of an allergic reaction may include shortness of breath; swelling of the face, lips, tongue, or other parts of the body; skin rash, itching or hives.

Skin No adverse health effects expected.

Inhaled Not an expected route of exposure unless powder is present. May cause mild irritation to respiratory tract.

Chronic Health Effects No chronic health effects known.

12. ECOLOGICAL INFORMATION

- No data available.
- For good environmental practice avoid discharge to waterways.

13. DISPOSAL CONSIDERATIONS

- In accordance with state land and waste management authority.
- Dispose via a licensed waste facility.

14. TRANSPORT INFORMATION

UN Number None allocated

DG Class None allocated

Subsidiary Risk None allocated

Packing Group None allocated

Hazchem Code None allocated

15. REGULATORY INFORMATION

Poisons Schedule Number Schedule 4 (S4) – Prescription only medicine

16. OTHER INFORMATION

Last Revised 9 February 2010

Reason for Revision Reissue of MSDS.

Abbreviations

- NOHSC – National Occupational Health and Safety Commission (please note NOHSC information can be sourced from www.ascc.gov.au)
- ACGIH – American Conference of Governmental Industrial Hygienists
- ADG Code – Australian Dangerous Goods Code
- UN Number – United Nations Number
- DG Class – Dangerous Goods Class
- CAS Number – Chemical Abstract Service Number

Contact Point

Company Contact: +61 3 9389 1984 (24hr)
Australian Poisons Information Centre, 24 hour service: 13 11 26
Australian Police, Fire Brigade or Ambulance: 000

New Zealand Poisons Information Centre, 24 hour service: (03) 4747 000
New Zealand Police, Fire Brigade or Ambulance: 111

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