**Material Safety Data Sheet**

**Tetanus Toxoid**

**Section 1. Product and Company Identification**

<table>
<thead>
<tr>
<th>Manufactured/Supplied by</th>
<th>Fort Dodge Animal Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 5th Street NW</td>
<td>P.O. Box 518</td>
</tr>
<tr>
<td>Fort Dodge, IA 50501</td>
<td>Phone: 515-955-4600</td>
</tr>
<tr>
<td></td>
<td>Fax: 515-955-9149</td>
</tr>
</tbody>
</table>

| Date of Preparation | 18 January 2002 |

| Product No.         | 20-2773 |

| Product Trade Name  | Tetanus Toxoid |

| Common Name         | Tetanus Toxoid |

| Synonyms            | None. |

| Chemical Formula    | NA |

| Chemical Family     | Veterinary Vaccine. |

| Material Uses       | Veterinary Biological. |

| Packaging           | Vial. Prefilled syringe/tube. |

| Formula Type        | Injectable solution. |

| Formula No.         | NA |

| CAS No.             | NA |

| U.N. No.            | NA |

| EINECS No.          | NA |

| In Case of Emergency | 515-955-6033 |

**Section 2. Composition - Information on Ingredients**

<table>
<thead>
<tr>
<th>Name of Ingredients</th>
<th>CAS No.</th>
<th>Conc.</th>
<th>EU Symbol</th>
<th>R Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Tetanus toxoid</td>
<td>NA</td>
<td>Various</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>2) May contain thimerosal, neomycin, formalin, polymyxin B, and/or amphotericin B as a preservative.</td>
<td>Various</td>
<td>Unknown</td>
<td>&lt;0.01%</td>
<td></td>
</tr>
</tbody>
</table>

**Section 3. Hazards Identification - Summary of Primary Effects and Critical Hazards**

**Acute Health Effects**

Vaccine contains inactivated virus and is not pathogenic. Adverse health effects are considered unlikely when the product is administered according to label directions.

**Chronic Health Effects**

Not considered to be toxic for humans.

**Environmental Hazards**

Releases of small quantities are unlikely to affect adversely the functioning of water treatment plants.

**Section 4. First Aid Measures - (by medical responders using "Universal Precautions")**

**Eye Contact**

May cause eye irritation.

**Skin Contact**

NO KNOWN EFFECT. After contact with skin, wash immediately with plenty of water.

**Inhalation**

No specific data.

**Ingestion**

If ingested, seek medical advice immediately and show the container or the label.

**Notes to Medical Doctor**

For self-inoculation, immediately wash injection site with soap and water. Bleeding, if present, from the puncture wound should be encouraged. Direct treatment at control of symptoms.

Continued on Next Page
Section 5. Fire-Fighting Measures

Extinguishing Media and Instructions  Aqueous solutions are non-flammable. Use DRY chemicals, CO2, alcohol foam or water spray.

Special Exposure Hazards  None. Dispose of fire debris and contaminated fire fighting water in accordance with regulations.

Special Fire Fighting Protective Equipment  Full fire-fighting attire and approved certified self-contained breathing apparatus worn only by qualified persons.

Section 6. Accidental Release Measures

Small Spill Guidelines  Absorb with an inert material and place in an appropriate waste disposal container.

Large Spill Guidelines  Absorb with an inert material and put the spilled material in an appropriate waste disposal. Call for assistance on disposal.

Environmental Precautions  Keep out of waterways.

Section 7. Handling and Storage

Handling (ventilation and fire prevention)  No special measures required.

Storage (conditions and limitations)  Keep only in the original container at a temperature not exceeding 7 deg. C. S02- Keep out of the reach of children.

Section 8. Exposure Controls and Personal Protection - (normal and intended use)

Exposure Guidelines  No hazardous ingredients

Engineering Design and Control Measures  No special measures required.

Protective Clothing  Safety glasses.

Skin  Gloves, Latex

Hands  Gloves, Latex

Respiratory  A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Physical State and Appearance  Opaque liquid

Molecular Weight  unknown

Boiling Point  unknown

Melting/Freezing Point  unknown

Density/Bulk Density  unknown

Vapor Pressure  unknown

Vapor Density  unknown

Odor  Odorless.

Color  Reddish-white.

pH  6 - 8

Continued on Next Page
**Tetanus Toxoid**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>unknown</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>unknown</td>
</tr>
<tr>
<td>Solubility</td>
<td>Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>NA</td>
</tr>
<tr>
<td>Autoignition Point</td>
<td>NA</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>NA</td>
</tr>
<tr>
<td>Dust Explosivity</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Section 10. Stability and Reactivity**

- **Conditions to Avoid and Incompatibility**: The product is stable.
- **Decomposition Products**: None.

**Section 11. Toxicological Information**

**Acute Effects**

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</td>
<td></td>
<td>Mildly irritating to the eyes.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td></td>
<td>No evidence of risk in humans.</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td>No evidence of risk in humans.</td>
</tr>
<tr>
<td>Ingestion</td>
<td></td>
<td>Not considered to be toxic for humans.</td>
</tr>
</tbody>
</table>

**Chronic Effects**

- **Target Organs**: None.
- **Adverse Effects Statements**: Not known.
- **Sensitization**: No evidence.
- **Carcinogenic Effects**: There is no known effect from chronic exposure to this product. No evidence of human carcinogenic effects
- **Mutagenic Effects**: Adverse health effects are considered unlikely when the product is administered according to label directions.
- **Teratogenic Effects**: No evidence of risk in humans. No known human teratogenic effect
- **Reproductive Effects**: Not considered to be toxic for the reproductive system.
- **Other Effects**: Adverse health effects are considered unlikely when the product is administered according to label directions.

*Continued on Next Page*
### Section 12. Ecological Information

**Environmental Fate**
Not evaluated. No known significant effects or critical hazards.

**Environmental Hazards**
Releases of small quantities are unlikely to affect adversely the functioning of water treatment plants.

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>Species</th>
<th>Period</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>No hazardous ingredients</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other**

### Section 13. Disposal Considerations

**Waste Handling and Disposal**
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

*Note: The waste generator must be informed of and follow all applicable rules and regulations for the handling and disposal of waste.*

### Section 14. Transport Information

**Proper Shipping Name, Primary Class, UNNA Number, Packaging Group**
Not regulated

**ADR/RID Classification (Road and Rail Transport)**
Not controlled under ADR of the EEC.

**ADNR Classification (Inland Waterways)**
Not controlled under ADNR (Europe).

**IMO/IMDG Class (Maritime Transport)**
Not controlled under IMDG.

**ICAO/IATA (Air Transport)**
Not controlled under IATA.

**CEFIC Tremcard HI Kemler**

**U.S.A. DOT Class**
Not a DOT controlled material (United States).

**NFPA Flammability Reactivity Specific hazard**

**RQ**

**Packaging Instructions**

### Section 15. Regulatory Information and Warning Labels

**(R) Risk Phrases**
R36- Irritating to eyes.

**(S) Safety Phrases**
S02- Keep out of the reach of children  
S25- Avoid contact with eyes  
S26- In case of contact with eyes, rinse immediately with plenty of water.  
S28- After contact with skin, wash immediately with plenty of water.

*NOTE: This product has been classified in accordance with applicable country-specific regulations.*
Section 16. Other Key Information

Other Considerations
See product label and package insert for additional information.

19 January 2002
Responsible for MSDS: Global Engineering, Environmental and Safety

Fort Dodge Animal Health -- within American Home Products Corporation

Notice to Reader

* This symbol indicates information which has changed from the previous MSDS.

The information provided in this MSDS is based on current knowledge, however, this does not constitute a warranty by the Company for that information. The product user is responsible for the appropriate and intended handling, use, and disposal of this product in accordance with label or package precautions and this information. All materials may present unknown hazards and should be used with caution.

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