



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product Identifier: P101: *Giardia lamblia* cysts in PBS with antibiotics and Tween 20. Live and Infectious. Revision Date: 10/5/2011
 Product Use: Contact supplier for specific applications.
 Manufacturer/Supplier: Waterborne™, Inc.
 Office Address: 6045 Hurst Street, New Orleans, LA 70118, USA
 Laboratory Address: 924 Valmont Street, Ste 101A, New Orleans, LA 70115, USA
 Telephone / FAX: (504) 895-3338 Emergency Phone: 1-866-895-3338

Section 2. Composition/Information on Ingredients

Chemical Identity / Common Name	CAS Number	(NIOSH) REL	ACGIH TLV
<i>Giardia lamblia</i> cysts	137259-49-5	NA	NA
Phosphate Buffer Solution (PBS):			
Sodium Phosphate (dibasic)	7558-79-4	NA	NA
Potassium Phosphate (monobasic)	7778-77-0	NA	NA
Potassium Chloride	7447-40-7	NA	NA
Sodium chloride	7647-14-5	NA	NA
Tween 20 (0.01%)	9005-64-5	NA	NA
Penicillin, Streptomycin	NA	NA	NA
Gentamicin	NA	NA	NA
Amphotericin B	NA	NA	NA

Section 3. Hazards Identification

WARNING: Only personnel trained in the handling of this particular parasite or similar pathogens should handle this material.
 Carcinogenic Information: Not a carcinogenic hazard.
 Infectivity: Product is both infectious and contagious.
 Route(s) of Transmission: Fecal-oral route.
 Route(s) of Entry: Ingestion.
 Signs & Symptoms: Including, but not limited to, diarrhea, flatulence, abdominal cramping, loss of appetite.

Section 4. First Aid Measures

Ventilation: Natural ventilation.
 Eyes: Splash goggles.
 Respiratory: None.
 Body: Gown or lab coat.
 Hands: Gloves.

Section 5. Fire Fighting Measures

Fire & Explosion Information: Not flammable or explosive.
 Extinguishing Media: Use media appropriate to surrounding material(s).

Section 6. Accidental Release Measures

Handling: Avoid splashing and ingestion of material. Wash hands after handling.
 Spill or Leak: Please inspect tubes containing the parasites for cracks and leakage upon their arrival. If leakage has occurred, notify supplier immediately and take care to control and contain the leaked material.
 Clean-Up Method: The following media can be used to decontaminate the working surface with 10% Formalin, 70% ethyl or methyl alcohol, or evaporation of the spilled material will also cause the parasites to die rapidly.

Section 7. Handling & Storage

Handling: Gloves, protective clothing and eyewear are recommended while using this product. Wash hands after use.
 Packaging: Use original container. Keep container securely closed.
 Storage: **Do not freeze.** Store at 4 ° C. Avoid prolonged exposure to light.

Section 8. Exposure Controls / Personal Protection

Exposure Limits: ACGIH TLV, OSHA PEL, Other: not determined
 Respiratory: No special equipment needed when handling small volumes.
 Eye Protection: Protective glasses.
 Body: Apron, gown or lab coat.
 Hands: Gloves.

Section 9. Physical / Chemical Properties

Physical State: Liquid. pH: Not Determined. Specific Gravity: Not Determined.
 Odor/Appearance: None. Boiling Point: Not Determined. Vapor Pressure: Not Determined.
 Solubility in Water: Not Determined. Melting Point: Not Determined. Flash Point: Not Determined.

Section 10. Stability & Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Hazardous Decomposition Products: None known.
 Conditions to Avoid: None known. Hazardous Polymerization: Will not occur.
 Incompatibilities: None known.

Section 11. Toxicological Information

Not classifiable as a human carcinogen. No other toxicological information is available at this time. Handle with care and take appropriate cautions.
 Hazardous in case of ingestion.

Section 12. Ecological Information

Do not allow product to reach ground water, water course, or sewage system.
Product is infectious to both animals and humans. It is a waterborne pathogen.

Section 13. Disposal Information

Waste Disposal: Consult local, state or federal regulations for proper disposal.
Parasites should be disposed of **only** after rendering them non-viable. This can be done by autoclaving, boiling at 100° C (5 min), freezing at -20° C (24 hr), or formalin-fixation-10% Formalin (24 hr).

Section 14. Transport Information

Proper Shipping name: *Giardia lamblia*.
Other Information: Shipped with gel packs.
Packaging Group: 650
DOT: Regulated by Infectious Substance 49 CFR Part 171-180
IATA: Must be transported in accordance to regulations 1.3.3.1, etc. for the shipment of Dangerous Goods. Class 6.2, UN 3373
International Information: Import permits may be required. Please check with your Customs Department.

Section 15. Regulatory Information

OSHA: Not listed
CERCLA: Not listed
TSCA: Not listed
SARA: Not listed
WHMIS: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
DSL: No
NDSL: No
WHMIS classification: D3

Section 16. Other Information

The information included in this document is based on experience and testing. To the best of our knowledge, the information contained in this document is accurate. However, the above named supplier does not assume liability for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution.
