

Product Code: 40-300500.v2

Product Name: Thyretain™ Reaction Buffer

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## 1. Information on the Substance/Preparation and Company

1.1	Catalog #	40-300500.v2
	Product name	Thyretain™ Reaction Buffer
1.2	Company	Diagnostic HYBRIDS, Inc. 1055 East State Street, Suite 100 Athens, OH 45701, USA (740) 589-3300 or (866) 344-3477
1.3	In emergencies	Call your local emergency center

## 2. Components and Hazardous Ingredients

<u>Hazardous Ingredients</u>	<u>Classification Substance</u>	<u>EINECS Nr.</u>
Penicillin	Xi, Xn, R42/43, S:23, 36/37, 45	200-710-2
Streptomycin	Xn, R22	223-286-0
[Proprietary ingredients]	[Not applicable]	[Not applicable]

Classification key: Toxic (T); Very toxic (T+); Harmful (Xn); Irritant (Xi); Dangerous for the environment (N); Oxidizing agent (O); Explosive (E); Flammable (F)

## 3. Hazards Identification

- Penicillin may cause allergic skin reaction, allergic respiratory reaction, slight irritation to the digestive tract, respiratory tract, eyes, and skin.
- Streptomycin is very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
- Contains non-hazardous quantities of proprietary ingredients [OSHA Regulations (Standards-29CFR) Hazard Communication-1910.1200(i)(1)]

## 4. First Aid Measures

- Eye contact:*
- Flush eyes immediately with water for 15 minutes, occasionally lifting the upper and lower eyelids
  - Consult a doctor/medical service
- Skin contact:*
- Wash with soap
  - Rinse with plenty of water
  - Consult a doctor/medical service
- After inhalation:*
- Remove the victim into fresh air
  - Consult a doctor/medical service
- After ingestion:*
- Consult a doctor/medical service

## 5. Fire Fighting Measures

- Suitable extinguishing media:*
- All non combustible extinguishing media allowed
- Unsuitable extinguishing media:*
- No data available
- Special exposure hazards:*
- No data available
- Instructions:*
- Take account of contaminated fire fighting water
  - Use fire fighting water moderately and contain it
- Special protective equipment for firefighters:*
- No data available

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6. Accidental Release Measures

- Personal protection:* ▪ See 8, below
- Environmental precautions:* ▪ Discharge according to local regulations
- Clean-up:* ▪ Take up liquid spill into absorbent material  
▪ Discharge of absorbed material according to local regulations  
▪ Wash clothing and equipment after handling

7. Handling and Storage

- Handling:* ▪ *If solution is spilled:* take up with an absorbent material; if contact is possible, wear gloves as protection.  
▪ Discharge according to local regulations  
▪ Remove contaminated clothing  
▪ Handle and open the container with care
- Storage:* ▪ 2°C to 8°C

8. Exposure Controls/Personal Protection

8.1 Exposure Limits

Chemical/Component	TLV/NIOSH REL	OSHA PEL	CAS No.
Penicillin	Not determined	Not listed	69-57-8
Streptomycin	Not determined	Not listed	57-92-1

Information in above table from NIOSH Pocket Guide to Chemical Hazards, 2005.

8.2 Control of Exposure

- Eye protection:* ▪ Safety glasses or Face shield
- Hand protection:* ▪ Gloves should be waterproof  
▪ Hands should be washed after working with this product.
- Suitable materials:* ▪ Butyl rubber, natural rubber, neoprene, nitrile rubber, polyethylene, PVC
- Skin protection:* ▪ Protective clothing
- Respiratory protection:* ▪ Area ventilation is generally adequate; avoid generation of dusts, mists or other airborne forms when working with the product  
▪ Insufficient ventilation: wear respiratory protection

9. Physical and Chemical Properties

Clear, aqueous liquid; colorless; odorless

Note: Boiling and Freezing Points for all aqueous components are near those of pure water.

10. Stability and Reactivity

*Stability:* All components are stable if stored in specified conditions (see label).

*Reactivity/Hazardous decomposition products:* No hazardous decomposition products are formed in high quantities

*Conditions/Materials to avoid:* Strong oxidizing agents.

11. Toxicological Information

Acute toxicity:

Penicillin	LD <sub>50</sub> oral, rat	6,916 mg/kg
Streptomycin	LD <sub>50</sub> oral, rat	430 mg/kg





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15. Regulatory Information

Classification according to directives 67/548/EEC and 1999/45/EC

Symbol	
 Xn – harmful Xi – irritant	R22 Harmful if swallowed R42/43: May cause sensitization by inhalation and skin contact R52: Harmful to aquatic organisms  S23: Do not breathe aerosols S36/37: Wear suitable protective clothing and gloves S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
 N	

16. Other Information

- Based on: US 29 CFR 1910:1200(g); Canadian Hazardous Product Act, Part II; Directive 911155/EEC et seq.
- This product is designed for use by professionals.
- The above information is believed to be accurate and represents the information available to date, but Diagnostic Hybrids does not purport it to be all-inclusive; this should be used only as a guide.
- Refer to the Product Insert for this Product for additional details on the proper storage, handling, use, and disposal of the reagents included in this Product.
- Contact Diagnostic Hybrids, Inc. if additional information is required.

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