



## MSDS – Extraction Buffer PTDCheck Specimen Collection Kit (PN 00597)

### 1. CHEMICAL AND COMPANY IDENTIFICATION

**Product Identification:** Extraction Buffer, PTDCheck Specimen Collection Kit (PN 00597)

**Trade Name/Chemical Family/Synonyms:** Extraction Buffer

**Product Description:** The extraction buffer is an aqueous solution containing protease inhibitors and protein preservatives including aprotinin, bovine serum albumin, and sodium azide.

**Product Use:** A preservative solution to support fibronectin during transport and test preparation.

**Manufacturer:** Cytoc Corporation  
250 Campus Drive  
Marlborough, Massachusetts 01752  
USA  
Telephone: 800-442-9892

**EMERGENCY TELEPHONE NUMBERS:** For Health/Transportation/Chemical Spills  
(24 hours a day and 7 days a week) (Multilingual capabilities and free calls accepted)  
Continental United States: (800) 424-9300  
Outside of continental United States: +(703) 527-3887

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical	CAS Registry #	Wt. %
Sodium Azide	26628-22-8	<1
Aprotinin	9087-70-1	<10

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Caution. May cause eye irritation. May cause skin irritation. Sodium azide is an irritant. Avoid contact with components containing azide.

**Routes of Exposure and Potential Health Effects:**

**Inhalation:** May cause respiratory tract irritation.

**Eye Contact:** May irritate eyes.

**Skin Contact:** May irritate skin.

**Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Target Organs:** Eyes, skin, respiratory system, gastrointestinal tract.

**Medical Conditions Aggravated by Exposure:** Asthma. Allergies.

**Chronic:** Repeated exposure may cause skin dryness or cracking.

### 4. FIRST AID MEASURES

**Inhalation:** If breathed in, move person into fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.

**Eye Contact:** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.





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### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

**Storage:** Keep out of the reach of children. Keep away from food, drink, and animal feedingstuffs.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

**Engineering Controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Personal Protective Equipment:**  
Eye/Face Protection: Wear safety glasses with side shields.  
Hand Protection: Wear suitable gloves.  
Skin and Body Protection: Wear suitable protective clothing  
Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Clear	<b>Color:</b> Light yellow
<b>Odor:</b> odorless	<b>Physical State:</b> Liquid
<b>Specific Gravity (Water = 1):</b> Not available	<b>VOC Content, wt. %:</b> Not available
<b>Solubility in Water:</b> Complete.	<b>Vapor Density (Air = 1):</b> Not available.
<b>Freezing Point (°F/°C):</b> Not available.	<b>Vapor Pressure mm/Hg:</b> Not available.
<b>Evaporation Rate (BuAc = 1):</b> Not available.	<b>pH (Wash Buffer Concentrate):</b> 7.5
<b>Viscosity:</b> Not available.	<b>Boiling Point (°F/°C):</b> Not available.
<b>Lower Flammability Limit:</b> Not available.	<b>Upper Flammability Limit:</b> Not available.
<b>Coefficient of Water/Oil Distribution:</b> Not available	<b>Auto-ignition Temperature:</b> Not available

### 10. STABILITY AND REACTIVITY

**General Stability:** Stable.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** Metals. Acids. Oxides of nitrogen.

**Hazardous Decomposition Products:** Oxides of carbon. Oxides of nitrogen.

**Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

### 11. TOXICOLOGICAL INFORMATION

#### Effects of Acute Exposure:

**Eyes:** May irritate eyes. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May irritate skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.



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**Inhalation:** May cause respiratory tract irritation.

### Effects of Chronic Exposure:

**Target Organs:** No data available.

**Chronic Effects:** Not hazardous by WHMIS/OSHA criteria.

**Carcinogenicity:** Not hazardous by WHMIS/OSHA criteria.

**Mutagenicity:** Liquid reagents contain sodium azide. Concentrated sodium azide has been reported as a mutagen.

**Reproductive Effects:** (**Aprotinin - only**) Adverse reproductive effects have occurred in experimental animals.

**Developmental Effects:** **Teratogenicity:** No data available.  
**Embryotoxicity:** No data available.

**Respiratory Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Skin Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Toxicologically Synergistic Materials:** Not hazardous by WHMIS/OSHA criteria.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

**Persistence / Degradability:** No data available.

**Bioaccumulation / Accumulation:** No data available.

**Mobility in Environment:** No data available.

### 13. DISPOSAL CONSIDERATION

**Disposal Instructions:** This material and its container must be disposed of in a safe way. Dispose in accordance with all applicable regulations.

### 14. TRANSPORTATION INFORMATION DOT (Department of Transportation)

Not hazardous by DOT and TDG criteria

### 15. REGULATORY INFORMATION

**USA:** MSDS prepared pursuant to the Hazard Communication Standard (CFR 29 1910.1200)

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS:** Not controlled.



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**State Issues:** Not listed for California Proposition 65

**NFPA (National Fire Protection Association):** Health – 0    Fire – 0    Reactivity – 0 (Highest rating of all components)  
Hazard Ratings: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**Foreign Chemical Inventories:** All ingredients are listed on the chemical inventories of the following countries:  
Canada (DSL/LIS)  
Japan  
European Union  
Australia

**16. OTHER INFORMATION**

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**Current Issue Date:** March, 2009  
**Previous Issue Date:** Initial Cytoc  
**Changes to MSDS:** Not applicable  
**Other Information:** None

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**Information Note:** Where no corresponding data was contained in manufacturer's MSDS, additional research is required and available upon request. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OR HER OWN PARTICULAR USE.