



## MSDS – Extraction Buffer QuikCheck fFN Kit (PN 01270)

### 1. CHEMICAL AND COMPANY IDENTIFICATION

**Product Identification:** Extraction Buffer, QuikCheck fFN Kit (PN 01270)

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

**Product Description:** The test consists of a rectangular membrane with an identifying label, embedded dry chemistry a sterile swab and a capped tube with specimen extraction buffer.

**Product Use:** A preservation 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:** (24 hours a day and 7 days a week) **For Health/Transportation/Chemical Spills (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
Sodium Acetate	6131-90 -4	<5
Bovine Serum Albumin	9048-46-8	<10
Polyvinylpyrrolidone	9003-39-8	<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 the skin.

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

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

**Signs and Symptoms:** Signs may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

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

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



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### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move person to fresh air. If symptoms persist, obtain immediate medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
<b>Eye Contact:</b>	Immediately flush with clean water for at least 15 minutes. If irritation persists, obtain medical aid.
<b>Skin Contact:</b>	Remove contaminated clothing and shoes. Flush affected area with copious amounts of water. If irritation or other symptoms are present, obtain immediate medical attention.
<b>Ingestion:</b>	<b>Do Not Induce Vomiting.</b> If swallowed, rinse mouth with water (only if the person is conscious). Call a Poison Control Center or medical provider immediately.
<b>Notes to Physician:</b>	Symptoms may be delayed.

### 5. FIRE FIGHTING MEASURES

<b>Flammability:</b>	Not flammable by OSHA / WHMIS criteria.
<b>Explosion Data:</b>	Sensitivity of Mechanical impact: No data available. Sensitivity to Static Discharge: No data available.
<b>General Hazard:</b>	The extraction buffer contains a very small percentage (0.2%) of sodium azide. Azide reacts with many heavy metals (e.g., copper, lead) to form explosive compounds. If the controls are being disposed of through plumbing, flush with a large volume of water. Flammable material. Heated material may form toxic and/or explosive vapors.
<b>Fire Fighting Instructions:</b>	Wear full turnout gear with self-contained breathing apparatus. If material is not involved in fire, attempt to cool with water or remove from area.
<b>Fire Fighting Equipment:</b>	Wear full turnout gear with self-contained breathing apparatus.
<b>Extinguishing Media:</b>	Foam, water, carbon dioxide (CO <sub>2</sub> ), dry chemical.
<b>Hazardous Combustion Products:</b>	Oxides of carbon. Oxides of nitrogen.
<b>Special Information:</b>	None

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use personal protection recommended in Section 8. Isolate area. Keep unnecessary personnel away.
<b>Environmental Precautions:</b>	The extraction buffer contains sodium azide which may form potentially explosive metal azides with lead and copper plumbing. For disposal, reagent should be flushed with large volumes of water to prevent azide build up. Prevent runoff from entering waterways, sewers, and confined spaces.
<b>Methods for Containment:</b>	Prevent further leakage or spillage if safe to do so. Absorb spills with sand, kitty litter, or vermiculite.
<b>Methods for Clean-Up:</b>	Sweep up or gather material and place in appropriate container for disposal.
<b>Other Information:</b>	Not available.



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### 7. HANDLING AND STORAGE

- Handling:** Wear recommended personal protective equipment. Avoid contact with skin and eyes. Do not eat or drink while using this product.
- Storage:** Keep out of reach of children. Keep away from food, drink, and animal feeding stuffs.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

- Engineering Controls:** Provide adequate general exhaust ventilation to minimize worker exposure.
- 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 practices.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| <b>Appearance:</b> Clear                                    | <b>Color:</b> Light yellow                      |
| <b>Odor:</b> Slight vinegar                                 | <b>Physical State:</b> Liquid                   |
| <b>Specific Gravity:</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:</b> Not available                      | <b>pH:</b> 6.3                                  |
| <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
- Incompatible Materials And Conditions To Avoid:** Heat, metals, acids, and oxidizers
- Hazardous Decomposition Products:** Oxides of carbon, oxides of nitrogen
- Hazardous Polymerization:** No dangerous reactions 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.
- Inhalation:** May cause respiratory tract irritation.



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### Effects of Chronic Exposure:

<b>Target Organs:</b>	No data available.
<b>Chronic Effects:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.
<b>Mutagenicity:</b>	Liquid reagents contain sodium azide. Concentrated sodium azide has been reported as a mutagen.
<b>Reproductive Effects:</b>	No data available.
<b>Developmental Effects:</b>	<b>Teratogenicity:</b> No data available. <b>Embryotoxicity:</b> No data available.
<b>Respiratory Sensitization:</b>	No data available.
<b>Skin Sensitization:</b>	No data available.
<b>Toxicologically Synergistic Materials:</b>	No data available.

### 12. ECOLOGICAL INFORMATION

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<b>Ecotoxicity:</b>	This product is not expected to producer significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
<b>Persistence / Degradability:</b>	No data available
<b>Bioaccumulation / Accumulation:</b>	No data available
<b>Mobility in Environment:</b>	No data available

### 13. DISPOSAL CONSIDERATION

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<b>Disposal Instructions:</b>	The extraction buffer contains 0.02% sodium azide, which may react with lead or copper plumbing to form potentially explosive metal azides. When disposing of this reagent, always flush the drain with large volumes of water to prevent azide build-up. Dispose in accordance with all applicable regulations.
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### 14. TRANSPORTATION INFORMATION

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Not hazardous by DOT and TDG criteria.

### 15. REGULATORY INFORMATION

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<b>USA:</b>	Ingredients in this product are on the TSCA list but are exempt from reporting requirements.
<b>Canada:</b>	This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations.
<b>WHMIS:</b>	Not controlled.
<b>State Issues:</b>	Not listed for California Proposition 65



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**NFPA (National Fire Protection Association):** Health – 0    Fire – 0    Reactivity – 0  
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)  
Japan  
European Union  
Australia

**16. OTHER INFORMATION**

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**Current Issue Date:** March, 2009  
**Previous Issue Date:** Initial Cytyc  
**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.