

## MATERIAL SAFETY DATA SHEET

 Material Name: **Citrate 320**

### SECTION 1 – PRODUCT INFORMATION

 Name: **FILTER INNOVATIONS Inc.**

 Address: **744 Gordon Baker Rd.**

 Emergency  
 Telephone No. 416-490-7848

City, State, and ZIP

**Toronto, ON, M2H 3B4**

 Other  
 Information  
 Calls

Signature of Person

Date Prepared: 2-22-2008

### SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) chemical & common name(s)	OSHA PEL	ACGIH TLV	Other Exposure Limits	%	CAS (optional) NO.
<b>Sodium Citrate 68-04-2</b>					
<b>Citric Acid 77-92-9</b>			Threshold Limit 2 mg/m		

### SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	217°F	Specific Gravity (H <sub>2</sub> O=1)	1.01	Vapor Pressure (mm Hg)	UNKNOWN
Percent Volatile by Volume (%)	72.5%	Vapor Density (air = 1)	Heavier than air.	Evaporation Rate:	Slower than Diethyl Ether
Solubility in Water	Complete	Reactivity in Water			None
Appearance and Odor	Clear, Pale Yellow Liquid	Melting Point	NA		

### SECTION 4 - FIRE & EXPLOSION DATA

Flash Point:	N/A	Flammable Limits in Air % by Volume	LEL Lower	UEL Upper	NA
Auto-Ignition Temperature	N/A	Extinguisher Media	Dry Chemical, CO <sub>2</sub> , Foam, Water Fog		
Special Fire					

Fighting Procedures: Fire Fighters should wear NIOSH/OSHA approved pressure demand, self contained breathing apparatus. Wear full protective clothing.

Unusual Fire and

Explosion Hazards: Use water to cool closed containers to prevent pressure build up or possible auto ignition or explosion when exposed to extreme heat.

### SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

<b>Stability</b>	Unstable <input type="checkbox"/>	Conditions to Avoid:
	Stable <input checked="" type="checkbox"/>	Stable under normal storage conditions

#### Incompatibility

**(Materials to Avoid)** Strong Oxidants, Highly alkaline products

**Hazardous Decomposition Products** If burned, may release smoke and oxides of carbon..

**Hazardous Polymerization** May Occur  Will Not Occur

Conditions To Avoid: If Frozen, thaw and mix before reuse.

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**SECTION 6 -HEALTH HAZARDS**

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**1.Acute:**Eyes: severely irritating to eyes. **2.Chronic:** Unknown  
Skin: Irritating to skin

**Signs and Symptoms of Exposure:** **Eyes:** Severe tearing, itching sensation, **Skin:** Pain in open skin, dryness, cracking, reddening

**Medical Conditions Generally Aggravated by Exposure**

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**Chemical Listed as Carcinogen** National Toxicology Yes  I..A.R.C. Yes  OSHA Yes   
**or Potential Carcinogen:** Program No  Monographs No  No

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**Emergency and First Aid Procedures:** **EYES:** Flush with water for 15 minutes.  
**INGESTION:** Drink large amounts of water to dilute. **SKIN:** Wash with soap and water.  
**INHALATION:** Remove to fresh air/ Consult Physician and get medical attention.

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**Routes Of Entry** 1.Inhalation: **ENTERS ALL LISTED ROUTES**  
2. Eyes:  
3. Skin:  
4. Ingestion:

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**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

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**Precautions to be Taken in Handling and Storage** Store in clean, dry area in properly labeled containers. Read MSDS and Product Bulletin before using. Keep containers closed when not in use. Keep away from children. Do not take internally.

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**Other Precautions:** Dispose of all containers in an environmentally safe manner after triple rinsing with water. Open bungs slowly to release pressure.

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**Steps to Be Taken in Case Material is Released or Spilled:** Stop leak or spill. Pump liquid to salvage drum or absorb with clay.

**Waste Disposal Methods:** (Consult federal, state, and local regulations) Dispose of in accordance with State, Local, and Federal Regulations.

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**SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

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**Respiratory Protection (Specify type)** Use mechanical exhaustion of vapors.

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**Ventilation:** N/A **Local Exhaust:** N/A **Mechanical (General):** N/A **Special:** N/A  
**Other:** N/A

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**Protective Gloves:** Nitrile or Neoprene **Eye Protection:** Safety Goggles

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**Other protective Clothing or Equipment:** Waterproof Apron.

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**Work/Hygienic Practice:** Launder contaminated clothing before reuse. Wash hands before eating or smoking.

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**\*\*\*The information contained herein is accurate to the best of our knowledge. Filter Innovations Inc. makes no warranty with respect hereto said information and disclaims all liability from reliance there in \*\*\***