



# Material Safety Data Sheet

## #M-23002

### SECTION I - General Information

**Product Name:** Autex<sup>®</sup> Manual Developer Replenisher Concentrate  
Catalog No. 23002

**Chemical Family:**  
Photographic Developer

**Formula:**  
Aqueous Mixture

**Proper D.O.T. Shipping Name:**  
Not Regulated

**D.O.T. Hazard Classification:**  
Not Applicable

**Manufacturer:**  
ALLIED Diagnostic Imaging Resources, Inc.  
5440 Oakbrook Parkway  
Norcross, GA 30093

**Manufacturer's Phone Number:**  
(770) 448-0250

**CHEMTREC Phone Number:**  
(800) 424-9300

### SECTION II - Product and Hazardous Ingredients Information

<u>Item</u>	<u>CAS#</u>	<u>PERCENT</u>	<u>EXPOSURE LIMITS</u> <u>(PEL or TLV)</u>	<u>SARA TITLE III</u> <u>RQ</u> <u>TPQ</u>	
Hydroquinone	123-31-9	3-6	2 mg/m <sup>3</sup>	100#	500#
Sodium Sulfite	7757-83-7	15-30	N/A	N/A	N/A
Sodium Carbonate	497-19-8	1-3	N/A	N/A	N/A
Potassium Hydroxide	1310-58-3	2-4	2 mg/m <sup>3</sup>	1000#	N/A
Water	7732-18-5	55-60	N/A	N/A	N/A

### SECTION III - Physical Data

**Boiling Point:** >212° F.  
**Vapor Pressure (mmHg):** 17.0  
**Vapor Density (mmHg):** 0.6  
**Solubility in Water:** Complete  
**Appearance and Odor:** Pale yellow, odorless

**Specific Gravity:** 1.23  
**Percent Volatile by Weight:** 85%  
**Evaporation Rate:** N/A  
**pH:** 10.9

### SECTION IV - Fire and Explosion Hazard Data

**Flash Point:** None  
**Extinguishing Media:** Use method appropriate for surrounding fire.  
**Special Fire Fighting Procedures:** Use protective clothing to prevent contact with skin and eyes.  
**Unusual Fire and Explosions Hazards:** When heated to decomposition, it can emit toxic fumes of SO<sub>2</sub>, CO<sub>2</sub> and possibly CO.

### SECTION V - Health Hazard Data

**TLV (ACGIH):** Hydroquinone (2mg/m<sup>3</sup>), Potassium Hydroxide (2mg/m<sup>3</sup>).

#### Effects of Overexposure:

**Inhalation:** Low hazard for ordinary industrial handling.  
**Eyes:** Vapor may cause irritation. Contact may cause burns.  
**Skin:** Repeated and prolonged contact may cause irritation.  
**Ingestion:** Do **Not** take internally. May be harmful if swallowed.

#### Pure Component Toxicology Information

**Hydroquinone:** Moderately toxic by oral ingestion. It is a skin and eye irritant and may cause an allergic reaction in sensitive individuals. Hydroquinone also may cause brown staining of the conjunctiva following prolonged direct eye contact with the solid and may depigment the skin following repeated skin contact under some circumstances. Hydroquinone is a CNS stimulant based on animal studies. Although Hydroquinone is not listed by OSHA, IARC or NTP as a human carcinogen, it has caused cancer in some animal studies.



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**Sodium Carbonate:** Slightly toxic by oral ingestion. It is a moderate to strong skin, eye, and respiratory tract irritant.

**Potassium Sulfite and Sodium Sulfite:** Slightly toxic by oral ingestion. It is a slight to moderate skin, eye, and respiratory tract irritant. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, hives, weakness and diarrhea following ingestion.

**Potassium Hydroxide-** Potassium hydroxide is corrosive to the skin, eyes and mucous membranes. It can cause severe burns and deep ulceration to the skin if not removed immediately. Contact with eyes can cause corneal and conjunctival ulceration with loss of sight if not washed out immediately. Ingestion is corrosive to the mouth and upper gastrointestinal tract and can cause severe abdominal pain, vomiting, diarrhea, collapse and death. Inhalation can cause irritation of the nose and throat.

### **Carcinogenicity Information**

#### **Hydroquinone:**

Not listed as a carcinogen by National Toxicology Program (NTP)

Not listed as a carcinogen by the International Agency for Research on Cancer (IARC)

Has caused cancer in some animal studies.

### **Medical Conditions Aggravated by Exposure:**

Persons with preexisting eye, skin or respiratory tract disorders may be more susceptible to the effects of this product.

### **Emergency First Aid Procedures:**

**Skin:** Wash skin with soap and water. If irritation occurs, seek medical attention.

**Eyes:** Flush with large amount of water for 15 minutes. Seek medical attention.

**Ingestion:** Drink water to dilute concentration. Induce vomiting only as directed by medical personnel. Seek medical attention giving full details of amount ingested and toxicity.

**Inhalation:** Move to fresh air.

### **SECTION VI - Reactivity Data**

**Stability:** Stable.

**Incompatibility:** Strong bases, strong acids.

**Hazardous Decomposition Products:** When heated to decomposition, it can emit toxic fumes of SO<sub>2</sub>, CO<sub>2</sub> and possibly CO.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** None known.

### **SECTION VII - Spill or Leak Procedures**

**Steps to be Taken in Case Material is Released or Spilled:** Wear protective clothing as specified in Section VIII. Neutralize with sodium bicarbonate. If federal, state and local laws permit, flush to sewer with large amounts of water.

**Waste Disposal:** Neutralize with sodium bicarbonate. If federal, state, and/or local laws permit, flush to sewer with large amounts of water. Otherwise, dispose of contaminated product and materials used in cleaning up the spill in a manner approved for this material. Consult proper federal, state and/or local regulatory agencies to ascertain proper disposal procedures.

### **SECTION VIII -Special Protection Information:**

**Respiratory Protection (Specify Type):** Should not be necessary under normal conditions. If exposed to mists or vapors that exceed published exposure limits, wear an approved respirator for protection.

#### **Protective Equipment:**

**Gloves:** Impervious gloves.

**Eyes:** Wear protective goggles.

**Other:** As necessary to prevent skin contact. Eyewash facilities in vicinity of use.

### **SECTION IX -Special Precautions**

**Precautions to be Taken in Handling and Storage:** Do not store or consume food, drink or tobacco in surrounding area. Keep away from alkalis, amines, alcohols, and strong oxidizers. Wash thoroughly after handling.



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The information contained in this material safety data sheet is furnished without warranty of any kind. The user should consider this data a supplement to other information gathered and must make independent determination of suitability and completeness of information from this and other sources to assure proper use and disposal of the materials and the health and safety of employees and customers. This statement is incorporated as part of this Material Safety Data Sheet.

**Revised: August 11, 2004**