

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **HIC-ES, ECO-PLUS, FR-MRII Environmentally Safe Developer Automatic X-Ray Developer - Working Strength**

PRODUCT USE	Photographic developer	HMIS SCALE	HEALTH <b>1</b>	FLAMMABILITY <b>0</b>	REACTIVITY <b>0</b>	PPE <b>C</b>
SUPPLIER	White Mountain Imaging	CATALOG #		22-110, 41-DEV, 42-774, 44-504, 44-505, 44-506, 44-508, ADL-DEV, AX-DEV, GLO-DEV, PB-DEV, PMI-DEV, SE-DEV		
ADDRESS	PO Box 216 Salisbury NH 03268					
PHONE NO.	<b>603-648-2124</b>	EMERGENCY TEL #	<b>CHEMTREC 800-424-9300</b>			

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	Not	Not available
Sodium metabisulfite	7681-57-4	<3	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m3	320 mg/kg	not available
Potassium hydroxide	1310-58-3	<2	NIOSH (C) 2 mg/m3	365 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
Not appropriate	Not appropriate	Not appropriate	Not appropriate
HAZARDOUS COMBUSTION PRODUCTS	EXPLOSION DATA	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE
See "Hazardous Decomposition Products".	Not susceptible	Not susceptible	Not susceptible

## SECTION 6 - Accidental Release

Flush to sewer with plenty of water, if permitted. If not, soak up with dry absorbent material. Consult with governmental regulatory agencies for appropriate disposal of this material. Wear splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material safety data sheet, and instructions before using. Avoid any contact with skin and eyes. Keep container tightly closed. Avoid incompatible substances. Wash thoroughly after handling this product.

### SECTION 8 - Exposure Controls

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY Not normally required

OTHER Eye wash station

### SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE <b>Liquid</b>	ODOR AND APPEARANCE <b>Pale yellow liquid</b>			ODOR THRESHOLD <b>Not available</b>
VAPOUR PRESSURE (mmHg) <b>&lt; 17 mm Hg</b>	VAPOUR DENSITY (Air = 1) <b>0.6 mm Hg</b>	EVAPORATION RATE (Water = 1) <b>Not available</b>	BOILING POINT <b>&gt; 212°F</b>	FREEZING POINT <b>&lt; 32°F</b>
pH <b>10.50</b>	SPECIFIC GRAVITY <b>1.080</b>	SOLUBILITY IN WATER (20°C) <b>Complete</b>	COEFF WATER OIL <b>Not available</b>	PERCENT VOLATILE (BY VOLUME) <b>Not available</b>

### SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS <b>Strong oxidizers and strong acids</b>		
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?		
REACTIVITY, AND UNDER WHAT CONDITIONS <b>Stable under ambient pressure and temperature.</b>			
HAZARDOUS DECOMPOSITION PRODUCTS <b>Sulfur dioxide</b>			

### SECTION 11 - Toxicological Information

EXPOSURE LIMITS <b>Hydroquinone 2.0 mg/m3 Potassium hydroxide 2.0</b>	IRRITANCY OF PRODUCT <b>Skin: Irritant</b>	SENSITIZATION TO PRODUCT <b>None known</b>	CARCINOGENICITY <b>Not listed by IARC, OSHA or ACGIH.</b>
TERATOGENICITY <b>Not known</b>	REPRODUCTIVE TOXICITY <b>Not known</b>	MUTAGENICITY <b>Not known</b>	SYNERGISTIC PRODUCTS <b>Not known</b>

### SECTION 12 - Ecological Information

No data available

### SECTION 13 - Disposal Considerations

Dispose of this product in accordance with federal, state and/or local laws.

### SECTION 14 - Transportation Information

Not regulated for transportation

### SECTION 15 - Regulatory Information

SARA: Reportable quantity (RQ) for Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

### SECTION 16 - Other Information

The information contained in this MSDS is furnished without warranty of any kind. The user should consider this data a supplement to other data gathered and must make an independent determination of suitability from this and other sources to assure proper use and disposal of this material and the health and safety of employees and customers.