



Division of BioCerax, Inc.

**MATERIAL SAFETY DATA SHEET**

13310 S FIGUEROA STREET LOS ANGELES, CA 90061 TEL: (310) 538 9530 FAX: (310) 515 6517

**SECTION I - Identification**

Product Name: **LITHMATIC DEVELOPER PART A** Date : September 30, 2000  
 Chemical Family : Aqueous Solution MSDS # : 61 22XX  
 Medical Emergency Telephone : (708) 640 4800  
 Transportation Emergency Telephone : CHEMTREC® 1 (800) 424 9300 Revision Date: 3/22/02

**SECTION II - Hazardous Components (Typical Values)**

INGREDIENTS	CAS NO.	WT%	ACGIH(TLV)	OSHA(PEL)
Sodium Formaldehyde Bisulfite	870-72-4	20-25	None	None
Triethylene Glycol	112-27-6	10-15	None	None
Hydroquinone	123-31-9	5-10	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

**SECTION III - Physical / Chemical Data**

Boiling Point	: > 212°F	Solubility in Water (by Weight)	: 100%
Melting Point	: Not Applicable	Specific Gravity (H <sub>2</sub> O = 1)	: 1.243
Vapor Pressure	: Same as water	Composite Vapor Pressure	: Not Applicable
Vapor Density (AIR = 1)	: Same as water	pH	: 7.20
Evaporation Rate	: Same as water	Appearance	: Clear and colorless to pale violet color
Volatile Fraction by Weight	: Same as water	Odor	: None
Volatile Organic Compound	: Not Applicable		

**SECTION IV - Fire and Explosion Hazard Data**

Flash Point : Not flammable  
 Flammable Limits in Air : Lower : None Upper: None  
 Extinguishing Media : Any extinguishing media applicable to the surrounding area.  
 Special Fire Fighting Procedures : Evacuate personnel to a safe area. Keep personnel away from and upwind of fire. Wear self-contained breathing apparatus.  
 Unusual Fire and Explosion Hazards : When heated to decomposition, emission of toxic fumes are possible.

**SECTION V - Health Hazard Data / SARA - Title III Hazard Categories**

- A. Acute Exposure Effects (Note: pertains to finished product)
- Eye contact : May cause irritation or burns.
  - Skin contact : May cause skin irritation or allergic skin reaction.
  - Inhalation : Normally not a problem, but inhalation of mist could cause respiratory irritation.
  - Ingestion : May cause irritation of mucous membranes or digestive tract.
- B. First Aid (Applies to finished Product)
- Eyes : Immediately flush with plenty of running water for at least 15 minutes. Obtain medical attention.
  - Skin : Flush affected areas promptly with water for 15 minutes. Remove contaminated clothing.
  - Inhalation : For over-exposure, remove to fresh air.
  - Ingestion : Induce vomiting. Obtain immediate medical attention.
- C. Chronic Health Effects (Note: Pertains to each ingredient listed in section 2 per 29 CFR Sect. 1910.1200)
- Hydroquinone:**  
 Repeated contact can cause skin sensitization and allergic dermatitis. Chronic over-exposure can cause anemia and discoloration and corneal opacity of the eyes.  
 - Toxicity Data: Oral-Human LDLO: 29 mg/kg.  
 Oral-Rat LD50: 320 mg/kg.
- All Other Ingredients in Section II**
- A computerized literature search of national databases did not yield any chronic effects associated with these materials.
  - Carcinogenicity Listing: NTP = No IAR = No OSHA = No

**SECTION VI - Reactivity Data**

Stability	: Stable.
Incompatibility	: Strong acid, oxidizers.
Hazardous Decomposition Products	: With strong acids, sulfur dioxide gas.
Hazardous Polymerization	: Will not occur.

**SECTION VII - Disposal Information****Spill, Leak or Release**

NOTE: Review Section IV and VIII before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sand, oil dry or other absorbent material.

**Waste Disposal**

Recover non-usable free liquid and/or contaminated water, and dispose of in an approved and permitted treatment system. Remove non-usable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Discharge to sewer requires approval of permitting authority and may require pre-treatment.

**SECTION VIII - Special Protection Information**

- A. Respiratory Protection : Sufficient room ventilation.  
 B. Skin and Eye Protection : Splash protection is suggested, e.g., eyeglasses with side shields, gloves and aprons.

**SECTION IX - Storage Conditions**

Store in a well ventilated area. Keep container tightly closed. Do not store with incompatible materials (See Section VI). Do not store or consume food, drink or tobacco in an area where they may become contaminated with this material.

**SECTION X - Hazardous Transportation Regulations**

NON REGULATED

**SECTION XI - Hazard Communication**

0 = Insignificant	HEALTH	= 1
1 = Slight	FLAMMABILITY	= 0
2 = Moderate	REACTIVITY	= 0
3 = High	SPECIAL	= 0
4 = Extreme		

**SECTION XII - TSCA Information**

TSCA Listing : All ingredients in this finished product are listed on the EPA TSCA Inventory (See Section II).

**SECTION XIII - Federal EPA - SARA Title III Notification**

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (FOR SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical	CAS #	Upperbound Concentration - %
Hydroquinone	123-31-9	5

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September 30, 2000



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Division of BioCerax, Inc.

13310 S FIGUEROA STREET LOS ANGELES, CA 90061 TEL: (310) 538 9530 FAX: (310) 515 6517

## SECTION I - Identification

Product Name: **LITHMATIC DEVELOPER PART B** Date : September 30, 2000  
MSDS # : 61 23XX  
Chemical Family : Aqueous Alkaline Solution  
Medical Emergency Telephone : (708) 640 4800  
Transportation Emergency Telephone : CHEMTREC® 1 (800) 424 9300 Revision Date: 3/22/02

## SECTION II - Hazardous Components (Typical Values)

INGREDIENTS	CAS NO.	WT%	ACGIH(TLV)	OSHA(PEL)
Potassium Carbonate	584-08-7	15-20	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>
Sodium Sulfite	7757-83-7	2-4	None	None

## SECTION III - Physical / Chemical Data

Boiling Point	: > 212°F	Solubility in Water (by Weight)	: 100%
Melting Point	: Not Applicable	Specific Gravity (H <sub>2</sub> O = 1)	: 1.33
Vapor Pressure	: Same as water	Composite Vapor Pressure	: Not Applicable
Vapor Density (AIR = 1)	: Same as water	pH	: 11.3
Evaporation Rate	: Same as water	Appearance	: Clear and colorless
Volatile Fraction by Weight	: Same as water	Odor	: None
Volatile Organic Compound	: Not Applicable		

## SECTION IV - Fire and Explosion Hazard Data

Flash Point : Not flammable  
Flammable Limits in Air : Lower : None Upper: None  
Extinguishing Media : Any extinguishing media applicable to the surrounding area.  
Special Fire Fighting Procedures : Evacuate personnel to a safe area. Keep personnel away from and upwind of fire. Wear self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards : When heated to decomposition, emission of toxic fumes are possible.

## SECTION V - Health Hazard Data / SARA - Title III Hazard Categories

- A. Acute Exposure Effects (Note: pertains to finished product)
- Eye contact : May cause irritation.
  - Skin contact : No dermal irritation as per test performed.
  - Inhalation : Inhalation of mist could cause severe respiratory irritation.
  - Ingestion : May cause irritation of mucous membranes or digestive tract.
- B. First Aid (Applies to finished Product)
- Eyes : Immediately flush with plenty of running water for at least 15 minutes. Obtain medical attention.
  - Skin : Flush affected areas promptly with water for 15 minutes. Remove contaminated clothing.
  - Inhalation : For over-exposure, remove to fresh air.
  - Ingestion : Induce vomiting. Obtain immediate medical attention.
- C. Chronic Health Effects (Note: Pertains to each ingredient listed in section 2 per 29 CFR Sect. 1910.1200)
- A computerized literature search of national databases did not yield any chronic effects associated with these materials
- Carcinogenicity Listing: NTP = No IAR = No OSHA = No

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Stability : Stable.  
 Incompatibility : Strong acids, oxidizers.  
 Hazardous Decomposition Products : With strong acids, sulfur dioxide gas.  
 Hazardous Polymerization : Will not occur.

**SECTION VII - Disposal Information**

**Spill, Leak or Release**

NOTE: Review Section IV and VIII before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sand, oil dry or other absorbent material. Spill may be neutralized with Citric Acid.

**Waste Disposal**

Recover non-usable free liquid and/or contaminated water, and dispose of in an approved and permitted treatment system. Remove non-usable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Discharge to sewer requires approval of permitting authority and may require pre-treatment.

**SECTION VIII - Special Protection Information**

- A. Respiratory Protection : Sufficient room ventilation.
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NON REGULATED

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Components present in this product at a level which could require reporting under the statute are:

Chemical	CAS #	Upperbound Concentration - %
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\*\*\* NONE \*\*\*

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