



**SPECTRUMEDIX FRAGMENT ANALYSIS MATRIX MSDS**

**MATERIAL SAFETY DATA SHEET**

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**SECTION 1. CHEMICAL IDENTIFICATION**

CATALOG #: M55405, M55408  
NAME: SPECTRUMEDIX FRAGMENT ANALYSIS MATRIX

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS#: Not assigned POLYMER, 2-10%  
MF: Trade Secret  
EC NUMBER (EINECS): Not assigned  
EC INDEX NUMBER: Not assigned

CAS#: 77-86-1 TRIS (HYDROXYMETHYL) AMINOMETHANE,  
MF: C4H11NO3  
EC NUMBER (EINECS): 201-064-4  
EC INDEX NUMBER: Not classified

CAS#: 10043-35-3 BORIC ACID,  
MF: H3BO3  
EC NUMBER (EINECS): 233-139-2  
EC INDEX NUMBER: Not classified

CAS#: 7732-18-5 WATER,  
MF: H2O  
EC NUMBER (EINECS): 231-791-2  
EC INDEX NUMBER: Not classified

**SECTION 3. HAZARDS IDENTIFICATION**

LABEL PRECAUTIONARY STATEMENTS:

Irritant.  
Irritating to eyes, respiratory system, and skin.

ROUTES OF ENTRY: Inhalation, absorption, and ingestion.



## **SPECTRUMEDIX FRAGMENT ANALYSIS MATRIX MSDS**

NFPA Ratings (SCALE 0-4):

HEALTH=2\*

FIRE=0

REACTIVITY=1

\*additional chronic hazards present.

**MAJOR HEALTH HAZARDS:** The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions.

**POTENTIAL HEALTH EFFECTS:**

-INHALATION:

Short Term Exposure: no information is available.

Long Term Exposure: no information on significant adverse effects.

-SKIN CONTACT:

Short Term Exposure: irritation

Long Term Exposure: no information on significant adverse effects

-EYE CONTACT:

Short Term Exposure: irritation

Long Term Exposure: no information on significant adverse effects

-INGESTION:

**CARCINOGEN STATUS:**

-OSHA: No.

-NTP: No.

-IARC: No.

### **SECTION 4. FIRST-AID MEASURES**

SEEK MEDICAL ASSISTANCE FOR ANY OVEREXPOSURE.

**SKIN:** Wash thoroughly with soap and water.

**EYES:** Immediately flush thoroughly with water for at least 15 minutes. Call a physician.

**INGESTION:** Contact local Poison Control Center or physician immediately. Never give anything by mouth to an unconscious person.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.

### **SECTION 5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Alcohol resistant foam, carbon dioxide, regular dry chemical or water.



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**SPECIAL FIREFIGHTING PROCEDURES:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Hazardous polymerization will not occur. Solution is not flammable.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Evacuate all unnecessary personnel. Wear a respirator, chemical safety goggles, rubber boots and rubber gloves. Absorb with sand or vermiculite and place in a closed container. Wash spill site with soapy water.

### **SECTION 7. HANDLING AND STORAGE**

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances. See original container for storage recommendations.

### **SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**EXPOSURE LIMIT:** No occupational exposure limits established.

**VENTILATION:** Provide local exhaust ventilation system.

**EYE PROTECTION:** Wear chemical resistant safety goggles.

**GLOVES:** Wear appropriate chemical resistant gloves.

**SAFETY SHOWER AND EYE BATH.**

**NIOSH/MSHA-APPROVED RESPIRATOR.**

**AVOID CONTACT WITH EYES, SKIN AND CLOTHING.**

**IRRITANT.**

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Colorless liquid.

**ODOR:** No data.

**BOILING POINT:** No data.

**WATER SOLUBILITY:** Water soluble.

### **SECTION 10. STABILITY AND REACTIVITY**

**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition.



## **SPECTRUMEDIX FRAGMENT ANALYSIS MATRIX MSDS**

Minimize contact with material. Avoid inhalation. Keep out of water supplies and sewers.

INCOMPATIBILITIES: Strong oxidizing agents, potassium, and acid anhydrides.

HAZARDOUS POLYMERIZATION: Will not occur.

DECOMPOSITION PRODUCTS: carbon dioxide, carbon monoxide, and oxides of boron and nitrogen.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### HEALTH EFFECTS:

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, and erythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma.

#### TARGET ORGAN(S) OR SYSTEM(S)

Testes.

#### CHRONIC EXPOSURE - TERATOGEN

Result: Laboratory experiments have shown teratogenic effects related to borates.

#### CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Result: Borates may cause reproductive disorders.

### **SECTION 12. ECOLOGICAL INFORMATION**

DATA NOT YET AVAILABLE.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all applicable regulations.

### **SECTION 14. TRANSPORTATION INFORMATION**



## **SPECTRUMEDIX FRAGMENT ANALYSIS MATRIX MSDS**

U.S. DOT 49 CFR 172.101: Not Regulated.

LAND TRANSPORT: Not Regulated.

AIR TRANSPORT: Not Regulated.

MARITIME TRANSPORT: Not Regulated.

### **SECTION 15. REGULATORY INFORMATION**

#### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xi

Indication of Danger: Irritant.

R: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin.

S: 26-36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

#### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

#### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

### **SECTION 16. OTHER INFORMATION**

The above information is believed to be correct and shall be used only as a guide. The information may be inclusive. Transgenomic, Inc. shall not be held liable for any damage resulting from handling or from contact with the above material.



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