

## Material Safety Data Sheet

### **SECTION 1 – IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY**

**Product Name:** SY-LAB – Salmonella-Selenite-Cystine (Liquid additive) – BiMedia 205A  
**Product Number:** 41-472051  
**Manufacturer/Supplier:** Advanced Instruments, Inc.  
Two Technology Way  
Norwood, MA 02062  
1-781-320-9000

**Date of Issue:** 2007-04-18

**Chemical Identification:** Sodium Selenite  
**Intended Use:** Mixture of substances listed below with non-hazardous additions

### **SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

**Component:**  
Sodium Selenite  
**CAS #:**  
10102-18-8  
**Synonyms:**  
None  
**Percent:**  
40% (w/w)

### **SECTION 3 – HAZARDS IDENTIFICATION**

#### **Health**

**Routes of Entry:**

Inhalation, ingestion, skin contact, or eye contact.

**Health Hazards:**

Harmful if swallowed and if inhaled

**Carcinogenicity:**

None indicated.

**Symptoms of Exposure:**

Irritation to the respiratory tract and mucous membrane, Eye and skin contact may cause irritation and redness.

**Medical Conditions Aggravated by Exposure:**

None indicated

### **SECTION 4 – FIRST AID MEASURES**

**Emergency and First Aid Procedures:**

Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident

**Eyes and Skin:**

Immediately flush thoroughly with water for at least 15 minutes. Wash skin with water and soap and rinse thoroughly.

**Inhalation:**

Remove to fresh air; If required provide artificial respiration, keep patient warm. Seek medical advice.

**Ingestion:**

Immediately call a doctor.

## **SECTION 5 – FIRE FIGHTING MEASURES**

**Flash Point (°F):**

Not Available

**Flammable Limits:**

LEL: Not Available

UEL: Not Available

**Extinguishing Media:**

Carbon dioxide, extinguishing powder, alcohol foam, or water spray.

**Fire Fighting Procedures:**

Wear self-contained respiratory protective device and protective clothing.

**Fire and Explosion Hazards:**

Does not present an explosion hazard.

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Spill Response:**

Wear suitable protective equipment listed under Section 8, Exposure Controls/Personal Protection. Keep unprotected persons away. Wipe with damp sponge or mop. Dispose contaminated material waste as described under, Section 13, Disposal Considerations. Comply with local, state, and country regulations on reporting releases. Refer to Section 15, Regulatory Information, for regulatory data.

## **SECTION 7 – HANDLING AND STORAGE**

Store in cool dry condition in well sealed receptacles. Do not get in eyes, on skin, or on clothing. Ensure good ventilation/exhaustion at the work place. Prevent formation of dust. Do not store together with oxidizing agents and acidic materials. Store away from reducing agents.

## **SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:**

Ensure adequate ventilation. In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA approved respirator. Wear chemical resistant glove, safety glasses and protective work clothing (lab coat).

**Work/Hygienic Practices:**

Wash hands thoroughly after handling. Keep away from foodstuffs, beverages and feed.

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

**Appearance:**

Solid, light beige color

**Boiling Point:**

Not Available

**Specific Gravity (H<sub>2</sub>O = 1):**

Not Available

**Melting Point (°C):**

Not Available

**Evaporation Rate (BuAc = 1):**

Not Available

**Vapor Pressure (mm Hg):**

Not Available

**Vapor Density (AIR = 1):**

Not Available

**Volatility:**

0%

**Solubility in Water (%):**

100.0%

## **SECTION 10 – STABILITY AND REACTIVITY**

### **Stability:**

Stable

### **Conditions to Avoid:**

No decomposition if used according to specification.

### **Materials to Avoid:**

Incompatible material: mineral acids, oxidizers, and reducers.

### **Hazardous Decomposition:**

Selenium/ selenium oxides

### **Hazardous Polymerization:**

Will not occur.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

### **Symptoms of Exposure:**

Cause irritation on contact with skin, eyes, and mucous membranes. Harmful if swallowed and inhaled. No sensitizing effects known. Sub acute to chronic toxicity: Target organs: liver.

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

None indicated.

### **Routes of Entry:**

Inhalation, ingestion, or skin contact.

### **Carcinogenicity:**

None indicated.

### **Toxicity Data:**

Oral-rat LD50: 7 mg/kg

### **Toxicological Findings:**

None indicated.

## **SECTION 12 – ECOLOGICAL INFORMATION**

### **Ecological effects:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

### **General notes:**

Water hazard class 2 (self –assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water even if small quantities leak into the ground.

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

### **EPA Waste Numbers:**

D001

### **Treatment:**

Disposal must be made according to the regulations found in 40 CFR 261. Must not be disposed of with solid waste.

This product is a RCRA hazardous waste RCRA # D010 (selenium).

Recommended cleansing agent: water with cleansing agents.

Specified Technology – Contact your local permitted waste disposal site (TSD) for permissible treatment sites.

ALWAYS CONTACT A PERMITTED WASTE DISPOSAL SITE (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND COUNTRY REGULATIONS.

## **SECTION 14 – TRANSPORT INFORMATION**

### **DOT Proper Shipping Name:**

Not Available

### **DOT ID Number:**

UN3288

### **Hazard Class:**

6.1

### **Packing group:**

II

### **Proper shipping name (technical name):**

Toxic solid, inorganic, n.o.s (sodium selenite)

## **SECTION 15 – REGULATORY INFORMATION**

### **Product related hazard information:**

The product has been classified and marked in accordance with regulations on hazardous materials.

### **Hazard symbols:**

Xn Harmful

### **European Information:**

Not Available

### **Hazard-determining components of labeling:**

Sodium selenite

### **Risk phrases:**

20/22 Harmful by inhalation and if swallowed.

33 Danger of cumulative effects.

### **Safety phrases:**

9 Keep container in a well-ventilated place.

20/21 When using do not eat, drink or smoke.

28 After contact with skin, wash immediately with plenty of soap and water

36 Wear suitable protective clothing.

### **National regulations**

#### **Additional classification according to Decree on Hazardous Materials:**

CERCLA: This product contains sodium selenite and has a Reporting Quantity (RQ) of 100 lbs.

SARA 311/312: Subject to reporting as acute.

313: Subject to reporting.

TSCA: This product exempt under TSCA.

#### **Water hazard class:**

Water hazard class 2 (Self-assessment): hazardous for water.

## **SECTION 16 – OTHER INFORMATION**

### **Comments:**

None

### **NFPA Hazard Ratings:**

Health: 3

Flammability: 0

Reactivity: 0

Special Hazards: Not Available

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