

## Material Safety Data Sheet

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

**Product Name:** Fluorophos® Test Reagent Set - Substrate  
**Product Number:** FLA224, FLA225 (with cuvettes) (1 of 2)  
**Manufacturer/Supplier:** Advanced Instruments, Inc.  
Two Technology Way  
Norwood, MA 02062  
1-781-320-9000  
**Origin:** USA  
**Date of Issue:** 2013-04-09

**Chemical Identification(s):** AttoPhos® Substrate  
**Intended Use:** The Fluorophos® Test Reagent Set - Substrate is used with the ALP Test Fluorophos® Test Reagent Set – Buffer. The Fluorophos ALP Assay is a rapid test for verifying proper pasteurization of dairy products.

### **SECTION 2 – HAZARDS IDENTIFICATION**

#### **Health**

**Routes of Entry:**  
Inhalation, ingestion, or skin contact.

**Health Hazards:**  
Harmful if swallowed. Irritating on contact with skin, eyes, mucous membranes, or upper respiratory tract.

**Carcinogenicity:**  
Not available

**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 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

**Component:**  
AttoPhos® Substrate

**CAS #:**  
129058-53-3

**Synonyms:**  
2'-[2-benzothiazoyl]-6'-hydroxy-benzothiazole phosphate Bis-[2-amino-2-methyl-1, 3-propanediol] salt

**Percent:**  
98 – 100 %

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

**Emergency and First Aid Procedures:**  
SEEK MEDICAL ASSISTANCE IN ALL CASES OF OVEREXPOSURE.

**Eyes:**  
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**Skin:**  
In case of contact, immediately wash skin with soap and copious amounts of water.

**Inhalation:**  
If inhaled, remove to fresh air.

**Ingestion:**  
If conscious, drink water and induce vomiting immediately as directed by medical personnel.

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

**Flash Point (°F):**  
Not available

**Flammable Limits:**  
LEL: Not available  
UEL: Not available

**Extinguishing Media:**

Carbon dioxide.

**Fire Fighting Procedures:**

Wear self-contained breathing apparatus and protective clothing.

**Fire and Explosion Hazards:**

Not considered a fire or explosion hazard.

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

**Spill Response:**

Wear suitable protective equipment listed under Section 8, Exposure Controls/Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if it can be done without risk. Clean up and place in closed container for proper disposal 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**

Keep container tightly closed. Do not get in eyes, on skin, or on clothing. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Store away from oxidizing agents.

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

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

Adequate ventilation is required. Protective gloves must be worn to prevent skin contact (Neoprene or equivalent).

Safety glasses with side shields must be worn at all times.

**Work/Hygienic Practices:**

Wash hands thoroughly after handling. Do not take internally. Eyewash and safety equipment should be readily available.

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

**Appearance:**

White-yellow powder

**Boiling Point:**

> 250 °C

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

Not available

**Melting Point (°C):**

Undetermined

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

Not available

**Vapor Pressure (mm Hg):**

Not available

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

Not determined

**Volatility:**

Not available

**Solubility in Water (%):**

Insoluble

**Danger of Explosion:**

Product does not present an explosion hazard.

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

**Stability:**

Stable

**Conditions to Avoid:**

Not determined

**Materials to Avoid:**

Strong acids and oxidizing agents.

**Hazardous Decomposition:**

Nitrogen oxides (No<sub>x</sub>).

**Hazardous Polymerization:**

Does not occur.

**Additional Information:**

Not applicable

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

**Symptoms of Exposure:**

Irritating on contact with skin, eyes, mucous membranes, or upper respiratory tract. Harmful if swallowed.

**Medical Conditions Aggravated by Exposure:**

None indicated.

**Routes of Entry:**

Inhalation, ingestion, or skin contact.

**Carcinogenicity:**

Not available

**Toxicity Data:**

Not available

**Toxicological Findings:**

Not available

## **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 1 (self –assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

**EPA Waste Numbers:**

Not available

**Treatment:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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.

**Other:**

Abfallschlüsselnummern in Austria (ÖNORM S2100): 59305

## **SECTION 14 – TRANSPORTATION INFORMATION**

**DOT Proper Shipping Name:**

Not available

**DOT ID Number:**

Not available

## **SECTION 15 – REGULATORY INFORMATION**

**Hazard symbols:**

This product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.

**Hazard-determining components of labeling:**

2'-[2-benzothiazoyl]-6'-hydroxy-benzothiazole phosphate Bis-[2-amino-2-methyl-1, 3-propanediol] salt

**Risk phrases:**

20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

**Safety phrases:**

9: Keep container in a well-ventilated place.

22: Do not breathe dust

26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28: After contact with skin, wash immediately with plenty of water.

36/37: Wear suitable protective clothing and gloves.

**Water hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

**SECTION 16 – OTHER INFORMATION**

**Comments:**

None

**NFPA Hazard Ratings:**

Health: 2

Flammability: 0

Reactivity: 0

Special Hazards: Not available

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