

# Safety Data Sheet

according to US HazCom 2012 Issue date: 03 November 2023

## **SECTION 1: Identification**

### 1.1. Identification

Product form : Substance

Trade name : Fluorophos Test Reagent Set - Substrate

CAS-No. : 129058-53-3

Product code : FLA224 & FLA225 (Substrate)

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory use

### 1.3. Supplier

Advanced Instruments LLC

2 Technology Way

Norwood, Massachusetts 02062

1 (781) 320-9000 info@aicompanies.com

#### 1.4. Emergency telephone number

Emergency number : 1 (877) 740-5015

### **SECTION 2: Hazard(s) identification**

#### 2.1. Classification of the substance or mixture

### **GHS US classification**

Acute toxicity (oral) Category 4
Acute toxicity (inhalation) Category 4

Harmful if swallowed Harmful if inhaled

### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : Harmful if swallowed or if inhaled Precautionary statements (GHS US) : Avoid breathing dust, mist.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

If swallowed: Call a poison center or doctor if you feel unwell.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a poison center or doctor if you feel unwell.

Rinse mouth.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

EN (English US)

# Safety Data Sheet

according to US HazCom 2012

## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS US classification
1,3-Propanediol, 2-amino-2-methyl-, compound with [2,2'-bibenzothiazol]-6-yl dihydrogen phosphate (2:1) (Main constituent)	CAS-No.: 129058-53-3	100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332

### 3.2. Mixtures

Not applicable

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an

unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or a doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Remove affected clothing and wash all exposed skin area with

mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation

develops.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do.

Continue rinsing. Seek medical attention if ill effect or irritation develops.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Symptoms may be delayed.

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after eye contact : Dust may cause mechanical irritation.

Symptoms/effects after ingestion : Harmful if swallowed.

#### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Carbon dioxide. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Not combustible. Thermal decomposition may produce : Carbon oxides (CO, CO2). Phosphorus

oxides. Nitrogen oxides. Sulphur oxides.

Explosion hazard : No hazard identified.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases

and vapors.

## 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

# Safety Data Sheet

according to US HazCom 2012

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel. Ventilate area. Avoid breathing dust, mist.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8:

"Exposure controls/personal protection".

Emergency procedures : No additional risk management measures required.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8:

"Exposure controls/personal protection".

Emergency procedures : No additional risk management measures required.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Avoid creating or spreading dust.

Methods for cleaning up : Mechanically recover the product. Minimize generation of dust. Sweep spilled substance into

containers; if appropriate, moisten first to prevent dusting. Store away from other materials.

Other information : Dispose in a safe manner in accordance with local/national regulations.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Ensure adequate ventilation. Use only outdoors or in a

well-ventilated area. Avoid breathing dust, mist.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and

safety procedures.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Keep container closed when not in

use.

Incompatible materials : None known.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## 1,3-Propanediol, 2-amino-2-methyl-, compound with [2,2'-bibenzothiazol]-6-yl dihydrogen phosphate (2:1) (129058-53-3)

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

# Safety Data Sheet

according to US HazCom 2012

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

In case of repeated or prolonged exposure: Wear suitable gloves resistant to chemical penetration. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

## Eye protection:

If dust are formed: Chemical goggles or safety glasses

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material

#### Other information:

Do not eat, drink or smoke during use. Keep away from food, drink and animal feeding stuffs.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state Solid Appearance Powder. Color whitish Odor : odourless Odor threshold : No data available : No data available рΗ Melting point : Not applicable Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density : No data available : Insoluble in water. Solubility Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic No data available **Explosion limits** Not applicable

Explosive properties : Product is not explosive.

Oxidizing properties : No data available

### 9.2. Other information

VOC content : 0 %

## **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# Safety Data Sheet

according to US HazCom 2012

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce: Carbon oxides (CO, CO2). Phosphorus oxides. Nitrogen oxides. Sulphur oxides.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) :	Harmful if inhaled.			
1,3-Propanediol, 2-amino-2-methyl-, compound with [2,2'-bibenzothiazol]-6-yl dihydrogen phosphate (2:1) (129058-53-3)				
ATE US (oral)	500 mg/kg body weight			
ATE US (dust, mist)	1.5 mg/l/4h			
Skin corrosion/irritation :	Not classified (Based on available data, the classification criteria are not met)			
Serious eye damage/irritation :	Not classified (Based on available data, the classification criteria are not met)			
Respiratory or skin sensitization :	Not classified (Based on available data, the classification criteria are not met)			
Germ cell mutagenicity :	Not classified (Based on available data, the classification criteria are not met)			
Carcinogenicity :	Not classified (Based on available data, the classification criteria are not met)			
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)			

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Viscosity, kinematic : Not applicable

Symptoms/effects : Symptoms may be delayed.

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after eye contact : Dust may cause mechanical irritation.

Symptoms/effects after ingestion : Harmful if swallowed.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

No additional information available

# Safety Data Sheet

according to US HazCom 2012

### 12.2. Persistence and degradability

1,3-Propanediol, 2-amino-2-methyl-, compound with [2,2'-bibenzothiazol]-6-yl dihydrogen phosphate (2:1) (129058-53-3)

Persistence and degradability Not established.

## 12.3. Bioaccumulative potential

1,3-Propanediol, 2-amino-2-methyl-, compound with [2,2'-bibenzothiazol]-6-yl dihydrogen phosphate (2:1) (129058-53-3)

Bioaccumulative potential Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA	
14.1. UN number				
Not regulated for transport				
14.2. Proper Shipping Name				
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available				

## **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

# Safety Data Sheet

according to US HazCom 2012

1,3-Propanediol, 2-amino-2-methyl-, compound with	CAS-No. 129058-53-3	100%
[2,2'-bibenzothiazol]-6-yl dihydrogen phosphate (2:1)		

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

No additional information available

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

according to US HazCom 2012

Revision date : 23 June 2023 Other information : None.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.