

## 1 Identification

- **Product identifier**
- **Trade name:** *Fluorophos® Test Reagent Set - Substrate*
- **Article number:** *FLA224 / FLA225*
- **CAS Number:**  
*129058-53-3*
- **Application of the substance / the mixture**  
*The Fluorophos Test Reagent Set - Substrate is used with the ALP Fluorophos Test Reagent Set - Buffer. The Fluorophos ALP Assay is a rapid test for verifying proper pasteurization of dairy products.*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Advanced Instruments  
2 Technology Way  
USA-NORWOOD, MA 02062  
USA  
info@aicompanies.com  
+1 (781) 320-9000*
- **Information department:** *Regulatory Affairs*
- **Emergency telephone number:** *+1 (877) 740-5015 - Rocky Mountain Poison & Drug Center (24 hours)*

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

- Acute Tox. 4 H302 Harmful if swallowed.*
- Acute Tox. 4 H332 Harmful if inhaled.*

- **Label elements**
- **GHS label elements**  
*The substance is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms**



GHS07

- **Signal word** *Warning*
- **Hazard statements**  
*Harmful if swallowed or if inhaled.*
- **Precautionary statements**  
*Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash 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/doctor if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Dispose of contents/container in accordance with local/regional/national/international regulations.*

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health= 2
FIRE	0	Fire= 0
REACTIVITY	1	Reactivity = 1

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT: Not applicable.**
- **vPvB: Not applicable.**

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
129058-53-3 AttoPhos® Substrate

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.

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- *Advice for fire fighters*
- *Protective equipment: Mouth respiratory protective device.*

## 6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Not required.*
- *Environmental precautions: Do not allow to enter sewers/ surface or ground water.*
- *Methods and material for containment and cleaning up:*  
*Dispose contaminated material as waste according to item 13.*  
*Ensure adequate ventilation.*
- *Reference to other sections*  
*See Section 7 for information on safe handling.*  
*See Section 8 for information on personal protection equipment.*  
*See Section 13 for disposal information.*

## 7 Handling and storage

- *Handling:*
- *Precautions for safe handling*  
*Thorough dedusting.*  
*Ensure good ventilation/exhaustion at the workplace.*
- *Information about protection against explosions and fires: No special measures required.*
- *Conditions for safe storage, including any incompatibilities*
- *Storage:*
- *Requirements to be met by storerooms and receptacles: No special requirements.*
- *Information about storage in one common storage facility: Not required.*
- *Further information about storage conditions: Keep receptacle tightly sealed.*
- *Specific end use(s) No further relevant information available.*

## 8 Exposure controls/personal protection

- *Additional information about design of technical systems: No further data; see item 7.*
- *Control parameters*
- *Components with limit values that require monitoring at the work place: Not required.*
- *Additional information: The lists that were valid during the creation were used as basis.*
- *Exposure controls*
- *Personal protective equipment:*
- *General protective and hygienic measures:*  
*Keep away from foodstuffs, beverages and feed.*  
*Wash hands before breaks and at the end of work.*
- *Breathing equipment:*  
*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*
- *Protection of hands:*  
*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*  
*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

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*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*

· **Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **Eye protection: Not required.**

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	<i>Powder</i>
· <b>Color:</b>	<i>Whitish</i>
· <b>Odor:</b>	<i>Odorless</i>
· <b>Odor threshold:</b>	<i>Not determined.</i>

· **pH-value:** *Not applicable.*

· **Change in condition**

· <b>Melting point/Melting range:</b>	<i>Undetermined.</i>
· <b>Boiling point/Boiling range:</b>	<i>Undetermined.</i>

· **Flash point:** *Not applicable.*

· **Flammability (solid, gaseous):** *Product is not flammable.*

· **Decomposition temperature:** *Not determined.*

· **Auto igniting:** *Not determined.*

· **Danger of explosion:** *Product does not present an explosion hazard.*

· **Explosion limits:**

· <b>Lower:</b>	<i>Not determined.</i>
· <b>Upper:</b>	<i>Not determined.</i>

· **Vapor pressure:** *Not applicable.*

· **Density:** *Not determined.*

· **Relative density** *Not determined.*

· **Vapor density** *Not applicable.*

· **Evaporation rate** *Not applicable.*

· **Solubility in / Miscibility with**

· **Water:** *Insoluble.*

· **Partition coefficient (n-octanol/water):** *Not determined.*

· **Viscosity:**

· <b>Dynamic:</b>	<i>Not applicable.</i>
· <b>Kinematic:</b>	<i>Not applicable.</i>

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· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0%
<b>VOC content:</b>	0.0 g/l / 0.00 lb/gal
· <b>Solids content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
- Substance is not listed.
- **NTP (National Toxicology Program)**
- Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
- Substance is not listed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- Water hazard class 1 (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADN, IMDG, IATA</b>  | not regulated   |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADN, IMDG, IATA</b>  | not regulated   |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | not regulated   |
| · <b>Packing group</b>   |                 |
| · <b>DOT, IMDG, IATA</b>   | not regulated   |
| · <b>Environmental hazards:</b>  | Not applicable. |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | not regulated   |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

Substance is not listed.

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· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard statements**

Harmful if swallowed or if inhaled.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash 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/doctor if you feel unwell.

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Regulatory Affairs

· **Contact:** Regulatory Affairs

· **Date of preparation / last revision** 04/27/2021 / -

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**Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Acute Tox. 4: Acute toxicity – Category 4*

US