

# PNP Substrate Buffer, 5X concentrate

Revision Date: 03-Nov-2022

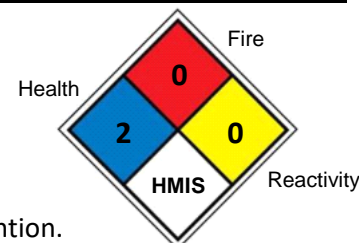
## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PNP Substrate Buffer, 5X concentrate  
**Catalog #:** ACC 00407  
**Product Use:** Buffer  
**Manufacturer:** Agdia, Inc.  
 52642 County Road 1  
 Elkhart, IN 46514  
 (574) 264-2014  
**Contact:** Safety Program Facilitator  
**Fax:** (574) 264-2153  
**Email:** info@agdia.com  
**Web:** www.agdia.com  
**Emergency:** Contact physician or poison control hotline.

## 2 HAZARDS IDENTIFICATION

**GHS Classification:** **DANGER**

**GHS Pictograms:**



**Precautions:** If exposed or concerned, seek medical advice or attention.  
**GHS Hazards:** H302 - Harmful if swallowed. H315 - Causes skin irritation. H318 - Causes serious eye damage. H351 - Suspected of causing cancer. H361 - Suspected of damaging fertility or the unborn child. H373 - Causes damage to organs through prolonged or repeated exposure.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

**Composition / Formula:** Diethanolamine (CAS# 111-42-2), 40.0%; Diethanolamine hydrochloride (CAS# 14426-21-2), 12.0%; Magnesium chloride hexahydrate (CAS# 7791-18-6), 0.05%; and Sodium Azide (CAS# 26628-22-8), 0.1% in water.

## 4 FIRST AID MEASURES

**Inhalation:** Move to fresh air. If breathing is difficult, provide oxygen. Seek medical attention if needed.  
**Skin Contact:** If skin irritation occurs, wash with soap and water.  
**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.  
**Ingestion:** Rinse mouth with water. Consult a physician if needed.

## 5 FIRE FIGHTING MEASURES

**Fire Fighting:** Not expected to ignite. If involved in a fire, use appropriate extinguishing agent for surrounding fire.  
**Specific Fire Hazards:** None known.

## 6 ACCIDENTAL RELEASE MEASURES

**Accidental Release:** Wear suitable laboratory protective clothing. Pick up excess with inert absorbant material and place into separate waste container. Flush area with warm soapy water.

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## 7 HANDLING AND STORAGE

**Handling Precautions:** Use standard laboratory safety practices. Protective gear shown in Section 8.  
**Storage Requirements:** Store under refrigeration (+2 to +8 °C).

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use mechanical (general) ventilation for storage areas.  
**Protective Equipment:** Handle in accordance with good industrial hygiene and safety practices. Eye protection and gloves recommended. If substance is a powder, nuisance exposures may be avoided with use of type P95 (US) or type P1 (EU EN 143) particle respirator.  
**Exposure Guidelines:** PEL - None Established. TLV - None Established.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Clear yellow liquid	<b>Odor:</b> None	<b>Flash Point:</b> Not available.
<b>Physical State:</b> Liquid	<b>pH:</b> ~ 9.8	<b>Autolignition:</b> Not available.
<b>Solubility:</b> Completely soluble in water		
<b>Other Information:</b> No additional physical or chemical information available.		

## 10 STABILITY AND REACTIVITY

**Reactivity Hazards:** None known.  
**Conditions To Avoid:** None known.  
**Stability:** Stable under normal conditions.  
**Materials To Avoid:** Strong oxidizing agents.  
**Hazardous By-products:** No hazardous reactions nor hazardous decomposition products known.

## 11 TOXICOLOGICAL INFORMATION

**Toxicology Information:** The complete chemical, physical, and toxicological properties of this material have not been thoroughly investigated to the best of Agdia's knowledge.

## 12 ECOLOGICAL INFORMATION

**Ecological Information:** Potentially toxic to aquatic life.

## 13 DISPOSAL CONSIDERATIONS

**Disposal:** Dispose of in accordance with local regulations.

## 14 TRANSPORT INFORMATION

**Transport Information:** Not dangerous goods per DOT, IATA, and IMDG.

## 15 REGULATORY INFORMATION

**Regulatory Information:** CERCLA: Not Applicable. SARA Title III: Not Listed

## 16 OTHER INFORMATION

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