

# PNP Substrate Buffer, 5X concentrate

Revision Date: 17-Apr-2017

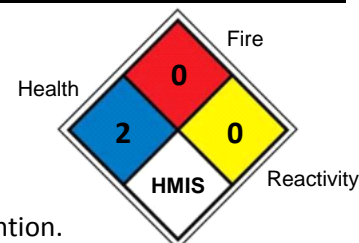
**1 PRODUCT AND COMPANY IDENTIFICATION**

**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:** Harmful if swallowed. Causes respiratory tract irritation. Causes skin irritation. May cause serious eye damage. Suspected of causing cancer. May cause organ damage with prolonged or repeated exposure.

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

**Composition / Formula:** Proprietary formulation containing diethanolamine (CAS 111-42-2, <50%) . No other hazardous components or carcinogens > 0.1%.

**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>Autolgnition:</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 hazarous 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:** No data available

**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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