

Buffer Pack

DRAFT: 10-Sep-2019

Buffer Pack (ACC 00444) contains the following components:

Component	SDS Number
PNP Substrate Buffer, 5X concentrate	ACC 00407
PNP Substrate Tablets (5mg)	ACC 00404
ECI Buffer, 5X concentrate	ACC 00523
PBST Buffer, powder	ACC 00115
Indirect Sample Extraction Buffer, powder	ACC 00980

SDS documents for each component listed above are included in this document.

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PNP Substrate Buffer, 5X concentrate

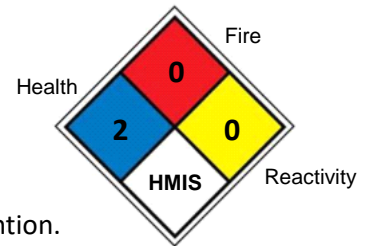
Revision Date: 10-Sep-2019

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: PNP Substrate Buffer, 5X concentrate
Catalog #: ACC 00407
Product Use: Buffer
Manufacturer: Agdia, Inc.
Contact: Safety Program Facilitator
PageBreak 6 and 7 52642 County Road 1 **Fax:** (574) 264-2153
 Elkhart, IN 46514 **Email:** info@agdia.com
Btw6&7 (574) 264-2014 **Web:** www.agdia.com
Emergency: Contact physician or poison control hotline.

2 HAZARDS IDENTIFICATION

GHS Classification: DANGER



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.

7 HANDLING AND STORAGE

PNP Substrate Buffer, 5X concentrate

Revision Date: 10-Sep-2019

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

Appearance: Clear yellow liquid **Odor:** None **Flash Point:** Not available.

Physical State: Liquid **pH:** ~ 9.8 **Autolgnition:** Not available.

Solubility: Completely soluble in water

Other Information: 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: 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

Disclaimer: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product. For R&D use only. Not for drug, household or other uses.

PNP Substrate Tablets (5mg)

Revision Date: 10-Sep-2019

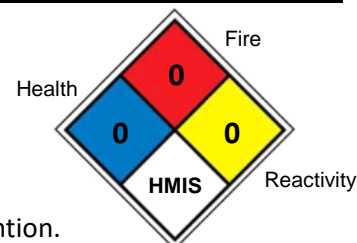
1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: PNP Substrate Tablets (5mg)
Catalog #: ACC 00404
Product Use: Substrate
Manufacturer: Agdia, Inc.
Contact: Safety Program Facilitator
PageBreak 7 and 8 52642 County Road 1 **Fax:** (574) 264-2153
 Elkhart, IN 46514 **Email:** info@agdia.com
Btw6&7 (574) 264-2014 **Web:** www.agdia.com
Emergency: Contact physician or poison control hotline.

2 HAZARDS IDENTIFICATION

GHS Classification: Not Hazardous

GHS Pictograms:



Precautions: If exposed or concerned, seek medical advice or attention.

GHS Hazards: None identified.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Formula: p-nitrophenyl phosphate (CAS 333338-18-4)

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: Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus, Sodium oxides.

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.

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

PNP Substrate Tablets (5mg)

Revision Date: 10-Sep-2019

Engineering Controls: Use mechanical (general) ventilation for storage areas.

Protective Equipment: No special protective equipment required. Handle in accordance with good industrial hygiene and safety practices. 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

Appearance: White to Yellow Tablet **Odor:** None **Flash Point:** Not available.

Physical State: Solid **pH:** N/A **Autolgnition:** Not available.

Solubility: Completely soluble in water

Other Information: Melting point/freezing point: > 300 °C (> 572 °F). 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, Strong acids, Strong bases

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: 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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ECI Buffer, 5X concentrate

Revision Date: 10-Sep-2019

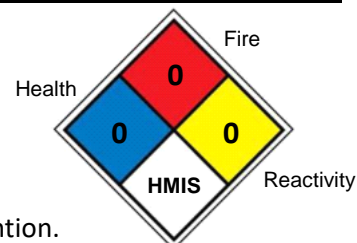
1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: ECI Buffer, 5X concentrate
Catalog #: ACC 00523
Product Use: Buffer
Manufacturer: Agdia, Inc.
Contact: Safety Program Facilitator
PageBreak 7 and 8 52642 County Road 1 **Fax:** (574) 264-2153
 Elkhart, IN 46514 **Email:** info@agdia.com
Btw6&7 (574) 264-2014 **Web:** www.agdia.com
Emergency: Contact physician or poison control hotline.

2 HAZARDS IDENTIFICATION

GHS Classification: Not Hazardous

GHS Pictograms:



Precautions: If exposed or concerned, seek medical advice or attention.

GHS Hazards: None identified.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Formula: Proprietary formulation; no 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.

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

ECI Buffer, 5X concentrate

Revision Date: 10-Sep-2019

Engineering Controls: Use mechanical (general) ventilation for storage areas.

Protective Equipment: No special protective equipment required. Handle in accordance with good industrial hygiene and safety practices. 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

Appearance: Opaque liquid

Odor: None

Flash Point: Not available.

Physical State: Liquid

pH: ~ 7.4

Autolgnition: Not available.

Solubility: Completely soluble in water

Other Information: 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: 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

Disclaimer: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product. For R&D use only. Not for drug, household or other uses.

PBST Buffer, powder

Revision Date: 10-Sep-2019

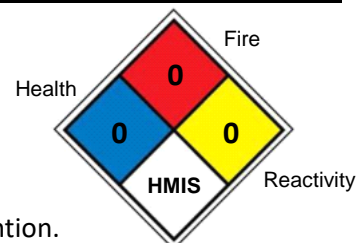
1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: PBST Buffer, powder
Catalog #: ACC 00115
Product Use: Buffer
Manufacturer: Agdia, Inc.
Contact: Safety Program Facilitator
PageBreak 7 and 8 52642 County Road 1 **Fax:** (574) 264-2153
 Elkhart, IN 46514 **Email:** info@agdia.com
Btw6&7 (574) 264-2014 **Web:** www.agdia.com
Emergency: Contact physician or poison control hotline.

2 HAZARDS IDENTIFICATION

GHS Classification: Not Hazardous

GHS Pictograms:



Precautions: If exposed or concerned, seek medical advice or attention.

GHS Hazards: None identified.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Formula: Potassium phosphate, monobasic (CAS 7778-77-0), Sodium phosphate, dibasic (CAS 7558-79-4), Potassium chloride (CAS 7447-40-7), Sodium chloride (CAS 7647-14-5), and Tween 20 (CAS 9005-64-5)

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.

7 HANDLING AND STORAGE

Handling Precautions: Use standard laboratory safety practices. Protective gear shown in Section 8.

PBST Buffer, powder

Revision Date: 10-Sep-2019

Storage Requirements: Store at room temperature in a well ventilated area.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use mechanical (general) ventilation for storage areas.

Protective Equipment: No special protective equipment required. Handle in accordance with good industrial hygiene and safety practices. 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

Appearance: Powder

Odor: None

Flash Point: Not available.

Physical State: Solid

pH: N/A

Autolgnition: Not available.

Solubility: Completely soluble in water

Other Information: 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

Disclaimer: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product. For R&D use only. Not for drug, household or other uses.

Indirect Sample Extraction Buffer, powder

Revision Date: 10-Sep-2019

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Indirect Sample Extraction Buffer, powder

Catalog #: ACC 00980

Product Use: Buffer

Manufacturer: Agdia, Inc.
PageBreak 7 and 8 52642 County Road 1
 Btw6&7 Elkhart, IN 46514
 (574) 264-2014

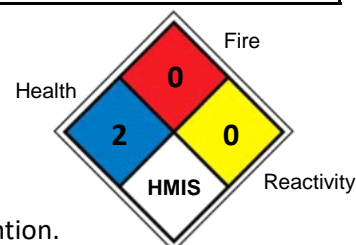
Contact: Safety Program Facilitator
Fax: (574) 264-2153
Email: info@agdia.com
Web: www.agdia.com

Emergency: Contact physician or poison control hotline.

2 HAZARDS IDENTIFICATION

GHS Classification: **Warning**

GHS Pictograms:



Precautions: If exposed or concerned, seek medical advice or attention.

GHS Hazards: May be harmful if inhaled. May cause respiratory tract irritation. May cause skin irritation. May cause eye irritation. May be harmful if swallowed.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Formula: Proprietary formulation.

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.

7 HANDLING AND STORAGE

Handling Precautions: Use standard laboratory safety practices. Protective gear shown in Section 8.

Storage Requirements: Store at room temperature in a well ventilated area.

Indirect Sample Extraction Buffer, powder

Revision Date: 10-Sep-2019

8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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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
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Appearance: White Powder

Odor: None

Flash Point: Not available.

Physical State: Solid

pH: N/A

Autolgnition: Not available.

Solubility: Completely soluble in water

Other Information: No additional physical or chemical information available.

10	STABILITY AND REACTIVITY
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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
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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
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Ecological Information: No data available

13	DISPOSAL CONSIDERATIONS
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Disposal: Dispose of in accordance with local regulations.

14	TRANSPORT INFORMATION
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Transport Information: Not dangerous goods per DOT, IATA, and IMDG.

15	REGULATORY INFORMATION
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Regulatory Information: CERCLA: Not Applicable. SARA Title III: Not Listed

16	OTHER INFORMATION
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