



Safety Data Sheet

Equine Infectious Anemia Virus Antibody Detection Microwell ELISA

Components:

| SDS Document # | Component Name |
|-----------------------|-----------------------|
| PN 4007 | Enzyme Conjugate |
| PN POS-4005 | Positive Control |
| PN NEG-4005 | Negative Control |
| PN 15-0005 | Chromogen |
| PN 15-0001 | Stop Solution |

Enzyme Conjugate PN 4007

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Enzyme Conjugate
Product Form: Mixture
Product Code: PN 4007
Intended Use of the Product: For Laboratory Use
Manufacturer:
SafePath Laboratories, LLC.
5909 Sea Lion Place, Suite D
Carlsbad, CA 92010 USA
Telephone: (760) 929-7744
Emergency: (760) 929-7744 – During Business Hours 7:00 am to 3:00 pm

SECTION 2: HAZARDS IDENTIFICATION

GHS-US Classification: Not classified
GHS Label Elements: No labeling applicable
Other Hazards: No additional information available.
Unknown Acute Toxicity: No Data Available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture
Hazardous Components:

| Name | CAS No | % Composition | GHS-US classification |
|-------------------|---------|---------------|---|
| Microcide III | NA | 0.2 | Skin Sens. 1, H317 |
| 4-Aminoantipyrine | 83-07-8 | 0.1 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 |

SECTION 4: FIRST AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Get immediate medical advice/attention if irritation develops and persists.
Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention if irritation develops and persists.
Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important symptoms and effects, both acute and delayed: See sections 2 and/or 11

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Indication of Any Immediate Medical Attention and Special Treatment Needed: No additional information available.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Hazards Arising from the Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other Information: Do not allow run-off from firefighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

General Measures: Do not get in eyes, on skin or on clothing. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections

Enzyme Conjugate PN 4007

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See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe vapors, mist, or spray. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Strong acids, strong bases, strong oxidizers. Reducing agents.

Specific End Use(s): No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective glasses or goggles.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: No data available

Odor: No data available

Odor Threshold: No data available

pH: ≈ 7.35

Enzyme Conjugate PN 4007

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| | |
|---|--------------------------------------|
| Evaporation Rate: | No data available |
| Melting/Freezing Point: | ≈ 0 °C (32 °F) |
| Boiling Point: | ≥ 100 °C (212 °F) |
| Flash Point: | No data available |
| Auto-ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Flammability (solid, gas): | No data available |
| Vapor Pressure: | No data available |
| Relative Vapor Density at 20 °C: | No data available |
| Relative Density: | No data available |
| Specific Gravity: | ≈ 1 |
| Solubility: | Complete in water |
| Partition Coefficient: N-Octanol/Water: | No data available |
| Viscosity: | No data available |
| Other Information: | No additional information available. |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7)

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Reducing agents.

Hazardous Decomposition Products: Thermal decomposition generates: Carbon oxides (CO, CO₂). Sulfur oxides. Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin

| | |
|-----------------------------|------------|
| 4-Aminoantipyrine (83-07-8) | |
| LD50 Oral Rat | 1700 mg/kg |

Skin Corrosion/Irritation: Not classified (pH: ≈ 7.35)

Serious Eye Damage/Irritation: Not classified (pH: ≈ 7.35)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Not classified

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Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology-General: No additional information available.

Persistence and Degradability: No additional information available.

Bioaccumulative Potential: No additional information available.

Mobility in Soil: No additional information available.

Other Adverse Effects: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions

Ecology-Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways

SECTION 14: TRANSPORT INFORMATION

| | |
|---------------------------------|-----------------------------|
| In Accordance with DOT: | Not regulated for transport |
| In Accordance with IMDG: | Not regulated for transport |
| In Accordance with IATA: | Not regulated for transport |

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard, Delayed (chronic) health hazard

United States TSCA (Toxic Substances Control Act) list:

4-Aminoantipyrine (83-07-8): Present

Water (7732-18-5): Present

US State Regulations

Sodium phosphate, dibasic (7558-79-4) present on:

Massachusetts – Right to Know List

New Jersey – Right to Know Hazardous Substance List

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Pennsylvania – Right to Know – List and Environmental Hazard List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

GHS Full Text Phrases:

| | |
|---------------|--|
| Skin Sens. 1 | Skin Sensitization Category 1 |
| Acute Tox. 4 | Acute toxicity Category 4 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| STOT SE 3 | Specific target organ toxicity, Single exposure Category 3 |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

Revision Date: 12/01/16
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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.

Positive Control PN POS-4005

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Positive Control
Product Form: Mixture
Product Code: PN POS-4005
Intended Use of the Product: For Laboratory Use
Manufacturer:
SafePath Laboratories, LLC.
5909 Sea Lion Place, Suite D
Carlsbad, CA 92010 USA
Telephone: (760) 929-7744
Emergency: (760) 929-7744 – During Business Hours 7:00 am to 3:00 pm

SECTION 2: HAZARDS IDENTIFICATION

GHS-US Classification: Not classified
GHS Label Elements: No labeling applicable
Other Hazards: No additional information available.
Unknown Acute Toxicity: No Data Available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture
Hazardous Components:

| Name | CAS No | % Composition | GHS-US classification |
|---------------|--------|---------------|-----------------------|
| Microcide III | NA | 0.3 | Skin Sens. 1, H317 |

SECTION 4: FIRST AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Get immediate medical advice/attention if irritation develops and persists.
Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention if irritation develops and persists.
Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important symptoms and effects, both acute and delayed: See sections 2 and/or 11

Indication of Any Immediate Medical Attention and Special Treatment Needed: No additional information available.

Positive Control PN POS-4005

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SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Hazards Arising from the Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other Information: Do not allow run-off from firefighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

General Measures: Do not get in eyes, on skin or on clothing. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

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Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe vapors, mist, or spray. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Strong acids, strong bases, strong oxidizers. Reducing agents.

Specific End Use(s): No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective glasses or goggles.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: No data available

Odor: No data available

Odor Threshold: No data available

pH: No data available

Evaporation Rate: No data available

Melting/Freezing Point: ≈ 0 °C (32 °F)

Boiling Point: ≥ 100 °C (212 °F)

Positive Control PN POS-4005

Safety Data Sheet

| | |
|---|--------------------------------------|
| Flash Point: | No data available |
| Auto-ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Flammability (solid, gas): | No data available |
| Vapor Pressure: | No data available |
| Relative Vapor Density at 20 °C: | No data available |
| Relative Density: | No data available |
| Specific Gravity: | ≈ 1 |
| Solubility: | Complete in water |
| Partition Coefficient: N-Octanol/Water: | No data available |
| Viscosity: | No data available |
| Other Information: | No additional information available. |

SECTION 10: STABILITY AND REACTIVITY

- Reactivity:** Hazardous reactions will not occur under normal conditions.
- Chemical Stability:** Stable under recommended handling and storage conditions (see section 7)
- Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Reducing agents.
- Hazardous Decomposition Products:** Thermal decomposition generates: Carbon oxides (CO, CO2). Sulfur oxides. Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

- Information on Toxicological Effects**
- Acute Toxicity:** Oral: Harmful if swallowed. Dermal: Harmful in contact with skin
- Skin Corrosion/Irritation:** Not classified
- Serious Eye Damage/Irritation:** Not classified
- Respiratory or Skin Sensitization:** Not classified
- Germ Cell Mutagenicity:** Not classified
- Carcinogenicity:** Not classified
- Reproductive Toxicity:** Not classified
- Specific Target Organ Toxicity (Single Exposure):** Not classified
- Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.
- Aspiration Hazard:** Not classified
- Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.
- Symptoms/Injuries After Skin Contact:** This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.
- Symptoms/Injuries After Eye Contact:** May cause eye irritation.
- Symptoms/Injuries After Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts.

Positive Control PN POS-4005

Safety Data Sheet

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Ecology-General: No additional information available.
Persistence and Degradability: No additional information available.
Bioaccumulative Potential: No additional information available.
Mobility in Soil: No additional information available.
Other Adverse Effects: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods
Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations
Additional Information: Container may remain hazardous when empty. Continue to observe all precautions
Ecology-Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT: Not regulated for transport
In Accordance with IMDG: Not regulated for transport
In Accordance with IATA: Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations
SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard, Delayed (chronic) health hazard

US State Regulations
Not present.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

| | |
|-------------------------------|-------------------------------------|
| GHS Full Text Phrases: | |
| Skin Sens. 1 | Skin Sensitization Category 1 |
| H317 | May cause an allergic skin reaction |

Revision Date: 12/01/16
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Positive Control PN POS-4005

Safety Data Sheet

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.

Negative Control PN NEG-4005

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Negative Control
Product Form: Mixture
Product Code: PN NEG-4005
Intended Use of the Product: For Laboratory Use
Manufacturer:
SafePath Laboratories, LLC.
5909 Sea Lion Place, Suite D
Carlsbad, CA 92010 USA
Telephone: (760) 929-7744
Emergency: (760) 929-7744 – During Business Hours 7:00 am to 3:00 pm

SECTION 2: HAZARDS IDENTIFICATION

GHS-US Classification: Not classified
GHS Label Elements: No labeling applicable
Other Hazards: No additional information available.
Unknown Acute Toxicity: No Data Available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture
Hazardous Components:

| Name | CAS No | % Composition | GHS-US classification |
|---------------|--------|---------------|-----------------------|
| Microcide III | NA | 0.3 | Skin Sens. 1, H317 |

SECTION 4: FIRST AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Get immediate medical advice/attention if irritation develops and persists.
Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention if irritation develops and persists.
Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important symptoms and effects, both acute and delayed: See sections 2 and/or 11

Indication of Any Immediate Medical Attention and Special Treatment Needed: No additional information available.

Negative Control PN NEG-4005

Safety Data Sheet

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Hazards Arising from the Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other Information: Do not allow run-off from firefighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

General Measures: Do not get in eyes, on skin or on clothing. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Negative Control PN NEG-4005

Safety Data Sheet

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe vapors, mist, or spray. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

- Technical Measures:** Comply with applicable regulations.
- Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Incompatible Products:** Strong acids, strong bases, strong oxidizers. Reducing agents.
- Specific End Use(s):** No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective glasses or goggles.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

- Physical State:** Liquid
- Appearance:** No data available
- Odor:** No data available
- Odor Threshold:** No data available
- pH:** No data available
- Evaporation Rate:** No data available
- Melting/Freezing Point:** ≈ 0 °C (32 °F)
- Boiling Point:** ≥ 100 °C (212 °F)

Negative Control PN NEG-4005

Safety Data Sheet

| | |
|---|--------------------------------------|
| Flash Point: | No data available |
| Auto-ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Flammability (solid, gas): | No data available |
| Vapor Pressure: | No data available |
| Relative Vapor Density at 20 °C: | No data available |
| Relative Density: | No data available |
| Specific Gravity: | ≈ 1 |
| Solubility: | Complete in water |
| Partition Coefficient: N-Octanol/Water: | No data available |
| Viscosity: | No data available |
| Other Information: | No additional information available. |

SECTION 10: STABILITY AND REACTIVITY

- Reactivity:** Hazardous reactions will not occur under normal conditions.
- Chemical Stability:** Stable under recommended handling and storage conditions (see section 7)
- Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
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- Symptoms/Injuries After Eye Contact:** May cause eye irritation.
- Symptoms/Injuries After Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts.

Negative Control PN NEG-4005

Safety Data Sheet

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Ecology-General: No additional information available.
Persistence and Degradability: No additional information available.
Bioaccumulative Potential: No additional information available.
Mobility in Soil: No additional information available.
Other Adverse Effects: Avoid release to the environment.

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US Federal Regulations
SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard, Delayed (chronic) health hazard

US State Regulations
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| | |
|-------------------------------|-------------------------------------|
| GHS Full Text Phrases: | |
| Skin Sens. 1 | Skin Sensitization Category 1 |
| H317 | May cause an allergic skin reaction |

Revision Date: 12/01/16
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Negative Control PN NEG-4005

Safety Data Sheet

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.

Chromogen PN 15-0003, 15-0005, 15-0011

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Chromogen
Product Form: Mixture
Product Code: 15-0003, 15-0005, 15-0011
Intended Use of the Product: For Laboratory Use
Manufacturer:
SafePath Laboratories, LLC.
5909 Sea Lion Place, Suite D
Carlsbad, CA 92010 USA
Telephone: (760) 929-7744
Emergency: (760) 929-7744 – During Business Hours 7:00 am to 3:00 pm

SECTION 2: HAZARDS IDENTIFICATION

GHS-US Classification: Not classified
GHS Label Elements: No labeling applicable
Other Hazards: No additional information available.
Unknown Acute Toxicity: No Data Available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture
Hazardous Components:

| Name | CAS No | % Composition |
|---|--------|---------------|
| Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200) | NA | 100 |

SECTION 4: FIRST AID MEASURES

General: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Inhalation: Remove to fresh air and keep at rest in a comfortable position for breathing.

Skin Contact: Remove affected clothing and wash all exposed skin with water for at least 15 minutes.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

Ingestion: Rinse mouth thoroughly. Do NOT induce vomiting without advice from poison control center or medical professional. Obtain medical attention if you feel unwell.

Most Important symptoms and effects, both acute and delayed: See section 11.

Indication of Any Immediate Medical Attention and Special Treatment Needed: No additional information available.

Chromogen PN 15-0003, 15-0005, 15-0011

Safety Data Sheet

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Foam. Carbon dioxide. Dry powder. Water spray. Sand.

Special Hazards Arising from the Mixture

Fire Hazard: The product is not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

Advice for Firefighters

Precautionary Measures: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection During Firefighting: Do not enter area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

General Measures: Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

Environmental Precautions

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

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Place in a suitable container for disposal in accordance with the waste regulations. Wash spill area thoroughly with plenty of soap and water.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

Chromogen PN 15-0003, 15-0005, 15-0011

Safety Data Sheet

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Keep away from sources of ignition. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep container closed when not in use. Store in a dry, cool and well-ventilated place. Keep/Store away from light and avoid high temperatures.

Specific End Use(s): No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No data available

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Gloves. Protective goggles.



Hand Protection: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing. Wear long sleeves.

Respiratory Protection: Where excessive vapor, mist or dust may result, use NIOSH approved respiratory protection equipment.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | |
|--------------------------------|---|
| Physical State: | Liquid |
| Appearance: | Clear, colorless to pale yellow, liquid |
| Odor: | No data available |
| Odor Threshold: | No data available |
| pH: | 3.3 - 3.8 |
| Evaporation Rate: | No data available |
| Melting/Freezing Point: | No data available |

Chromogen PN 15-0003, 15-0005, 15-0011

Safety Data Sheet

| | |
|---|--------------------------------------|
| Boiling Point: | No data available |
| Flash Point: | No data available |
| Auto-ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Flammability (solid, gas): | Not flammable |
| Vapor Pressure: | No data available |
| Relative Vapor Density at 20 °C: | No data available |
| Relative Density: | 1.01 |
| Solubility: | Complete in water |
| Explosive properties: | Product is not explosive |
| Oxidizing properties: | Not an oxidizer |
| Other Information: | No additional information available. |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No dangerous reactions known under normal conditions of use.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7)

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Light. Elevated temperatures. Moisture.

Incompatible Materials: Strong oxidizing agents. Metals.

Hazardous Decomposition Products: Thermal decomposition generates: Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity: Not classified

Skin Corrosion/Irritation: Not classified (pH: 3.3 - 3.8)

Serious Eye Damage/Irritation: Not classified (pH: 3.3 - 3.8)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight temporary eye irritation.

Symptoms/Injuries After Ingestion: May cause gastrointestinal irritation.

SECTION 12: ECOLOGICAL INFORMATION

Chromogen PN 15-0003, 15-0005, 15-0011

Safety Data Sheet

Toxicity

Ecology-General: No information available.

Persistence and Degradability: No information available.

Bioaccumulative Potential: No information available.

Mobility in Soil: No information available.

Other Adverse Effects: No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Waste Disposal Recommendations: Dispose in a safe manner in accordance with local, regional, national, and international regulations.

Ecology-Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT: Not regulated for transport

In Accordance with IMDG: Not regulated for transport

In Accordance with IATA: Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) inventory. All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 11/22/16

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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.

Stop Solution PN 15-0001, 15-0006

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Stop Solution
Product Form: Mixture
Product Code: 15-0001, 15-0006
Intended Use of the Product: For Laboratory Use
Manufacturer:
SafePath Laboratories, LLC.
5909 Sea Lion Place, Suite D
Carlsbad, CA 92010 USA
Telephone: (760) 929-7744
Emergency: (760) 929-7744 – During Business Hours 7:00 am to 3:00 pm

SECTION 2: HAZARDS IDENTIFICATION

| | | |
|--|------------|------|
| GHS-US Classification | | |
| Skin Corrosion/Irritation | Category 2 | H315 |
| Eye Damage/Irritation | Category 1 | H318 |
| Hazardous to the Aquatic Environment (Acute) | Category 2 | H401 |

GHS Label Elements (Note: per 29 CFR 1910.1200(b)(5)(iii), pictograms are not required on product labeling)
Pictogram:



Signal Word: Danger

Hazard Statements: H315 – Causes skin irritation
H318 – Causes serious eye damage
H401 – Toxic to aquatic life

Precautionary Statements: P264 – Wash arms, hands and face thoroughly after handling
P273 – Avoid release to the environment
P280 – Wear protective gloves and eye protection
P302+P352 – If on skin: Wash with plenty of soap and water
P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 – Immediately call a poison center or physician
P321 – Specific treatment (wash areas of contact with water)
P332+P313 – If skin irritation occurs: Get medical attention
P362 – Take off contaminated clothing and wash it before reuse
P501 – Dispose of contents in accordance with local, regional, national, and international regulations

Other Hazards: No information available.

Stop Solution PN 15-0001, 15-0006

Safety Data Sheet

Unknown Acute Toxicity: No Data Available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Hazardous Components:

| Name | CAS No | % Composition |
|-----------------|-----------|---------------|
| Phosphoric Acid | 7664-38-2 | 6.92 |

SECTION 4: FIRST AID MEASURES

- General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.
- Skin Contact:** Wash with plenty of soap and water. May cause irritation, redness and pain.
- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain and tearing.
- Ingestion:** Dilute with water or milk. Do NOT induce vomiting. Obtain medical attention, if necessary.

Most Important symptoms and effects, both acute and delayed:

WARNING! Mildly corrosive. May be harmful if swallowed. Avoid ingestion or contact with eyes, skin or clothing. If swallowed, do not induce vomiting. Give large quantity of water and call a physician. Wash areas of contact with plenty of water for 15 minutes. For eyes, get medical attention. EYE CONTACT: May cause irritation, redness, pain and tearing. SKIN CONTACT: May cause irritation, redness and pain. CHRONIC EFFECTS/CARCINOGENICITY: Chronic respiratory disease and dermatitis may develop from repeated exposures.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Immediately call a Poison Center or physician. Specific treatment: Wash areas of contact with water.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:

Use extinguishing media appropriate for surrounding fire. Phosphoric Acid is a non-combustible liquid.

Special Hazards Arising from the Mixture

Not considered to be a fire or explosion hazard. May react with metals to release flammable Hydrogen gas.

Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Stop Solution PN 15-0001, 15-0006

Safety Data Sheet

Personal Precautions, Protective Equipment, and Emergency Procedures

Wear protective gloves and eye protection.

Methods and Material for Containment and Cleaning Up

Collect liquid and dilute with water. Neutralize with dilute base solutions. Release to drain if local regulations allow. For larger spills, absorb with suitable material (vermiculite, clay, etc.). Collect the solid residue and save for disposal. CERCLA reportable quantity for Phosphoric Acid is 5,000 pounds.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe vapors, mist, or spray. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

- Storage Conditions:** Protect from freezing and physical damage.
- Incompatible Products:** Strong bases, metals, alcohols, amines, aldehydes.
- Specific End Use(s):** No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Phosphoric Acid (7664-38-2) | | |
|-----------------------------|---------------------------------|--------------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 1 mg/m ³ TWA |
| USA ACGIH | ACGIH STEL (mg/m ³) | 3 mg/m ³ STEL |
| USA OSHA | OSHA PEL (mg/m ³) | 1 mg/m ³ TWA |

Exposure Controls

- Appropriate Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.
- Personal Protective Equipment:** Gloves. Protective glasses or goggles.



- Skin Protection:** Wear protective gloves and eye protection. Chemical resistant gloves.
- Eye Protection:** Safety glasses or goggles.
- Respiratory Protection:** Normal room ventilation is adequate.
- Other Information:** When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Stop Solution PN 15-0001, 15-0006

Safety Data Sheet

Information on Basic Physical and Chemical Properties

| | |
|---|--------------------------------------|
| Physical State: | Liquid |
| Appearance: | Clear colorless liquid |
| Odor: | No data available |
| Odor Threshold: | No data available |
| pH: | < 2 |
| Evaporation Rate: | No data available |
| Melting/Freezing Point: | ≈ 0 °C (32 °F) |
| Boiling Point: | ≈ 100 °C (212 °F) |
| Flash Point: | No data available |
| Auto-ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Flammability (solid, gas): | No data available |
| Vapor Pressure: | No data available |
| Relative Vapor Density at 20 °C: | No data available |
| Relative Density: | 1.04 |
| Solubility: | Miscible |
| Partition Coefficient: N-Octanol/Water: | No data available |
| Viscosity: | No data available |
| Auto-Ignition Temperature: | No data available |
| Explosive Properties: | No data available |
| Oxidizing Properties: | No data available |
| Other Information: | No additional information available. |

SECTION 10: STABILITY AND REACTIVITY

- Reactivity:** Hazardous reactions will not occur under normal conditions.
- Chemical Stability:** Stable under recommended handling and storage conditions (see section 7)
- Possibility of Hazardous Reactions:** Data not available.
- Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- Incompatible Materials:** Strong bases, metals, alcohols, amines, aldehydes.
- Hazardous Decomposition Products:** Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity: Oral, Dermal, Inhalation Exposure: Not applicable

| Phosphoric Acid (7664-38-2) | |
|-----------------------------|---|
| LD50 Oral Rat | 1530 mg/kg, behavioral, kidney, bladder, hair effects noted |
| LD50 Dermal Rat | 2740 mg/kg, behavioral effects noted |

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Safety Data Sheet

Skin Corrosion/Irritation: Causes skin irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF ON SKIN: wash with plenty of soap and water. Specific treatment: wash areas of contact with water. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash it before reuse.

Serious Eye Damage/Irritation: Causes serious eye damage. Wear protective gloves and eye protection IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Center or physician.

Respiratory or Skin Sensitization: Not applicable

Germ Cell Mutagenicity: Not applicable

Carcinogenicity: Not applicable

Reproductive Toxicity: Not applicable

Specific Target Organ Toxicity (Single Exposure): Not applicable

Specific Target Organ Toxicity (Repeated Exposure): Not applicable

Aspiration Hazard: Not applicable

Additional Toxicology Information: Data not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life. Avoid release to the environment. Dispose contents in accordance with local, state, federal and international regulations

Persistence and Degradability: Data not available

Bioaccumulative Potential: Data not available

Mobility in Soil: Data not available

Other Adverse Effects: Data not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Data not available

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT: Not regulated for transport

In Accordance with IATA: Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

SARA Section 311/312 Hazard Classes: Phosphoric Acid (7664-38-2): 5,000 lb final RQ; 2,270 kg final RQ

United States TSCA (Toxic Substances Control Act) list:

Phosphoric Acid (7664-38-2): Present

Water (7732-18-5): Present

Massachusetts Right-to-Know Substance List:

Phosphoric Acid (7664-38-2): Present

Pennsylvania Right-to-Know Hazardous Substances:

Phosphoric Acid (7664-38-2): Present, Environmental hazard

Stop Solution PN 15-0001, 15-0006

Safety Data Sheet

Water (7732-18-5): Present

New Jersey Worker and Community Right-to-Know Components: Phosphoric Acid (7664-38-2): corrosive, sn 1516

Canada Domestic Substances List/Non-Domestic Substances List (DSL/NDSL):

Phosphoric Acid (7664-38-2): Present (DSL)

Water (7732-18-5): Present (DSL)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 11/22/16

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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