Part Number: 9505, 9506

Veratox for Histamine, Veratox for Histamine Tuna Pack

This is a diagnostic test kit that is comprised of several individual components, each of which may have its own Safety Data Sheet. If a component does not have a Safety Data Sheet included here the item falls under Hazard Communication [1910.1200(b)(6)], Articles, and does not require a Safety Data Sheet.

For any questions please contact Neogen Corporation.

The following Safety Data Sheets are included in this file:
- Histamine Controls – 0, 2.5, 5, 10, 20, 50 ppm
- Histamine HRP Conjugate Solution
- K-Blue® Substrate
- Red Stop Solution
- PBS Foil Pack
- Wash Buffer Concentrate (with Neogen Item 9505)
- Wash Buffer Concentrate Foil Packs (with Neogen item 9506)
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
- Product Name: Histamine Controls – 0, 2.5, 5, 10, 15, 20, 50 ppm
- Product Part Number: Used in various kits

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: For use with Veratox and Alert Histamine kits.
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 620 Lesher Place
  Lansing, Michigan 48912
  USA
- Telephone: 517/372-9200
- Email: Foodsafety@neogen.com

1.4 Emergency telephone number
- Emergency Telephone: Chemtrec: 1 (800) 424-9300
  Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
Classification (29 CFR 1910.1200)
- Not classified as hazardous for supply
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Not classified as hazardous for supply
Classification (WHMIS 2015 HPR)
- Not classified as hazardous for supply
Additional information: For full text of Hazard-statements see Section 16.

2.2 Label elements
- Signal Word: None
- Symbols: None
- Hazard phrases
  None
- Precautionary Phrases
  Keep container tightly closed.
  Do not breathe mist/vapors/fumes/spray.
  Avoid contact with eyes, skin, or clothing.

2.3 Other hazards
- May be mildly irritating to skin and eyes.
- May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances
3.2 Mixtures

SECTION 4 First aid measures

4.1 Description of first aid measures
- General
  In case of doubt, or when symptoms persist, seek medical attention.
  In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
SECTION 4  First aid measures (controls)

- Contact with skin
  - Remove contaminated clothing.
  - Wash affected area with plenty of soap and water.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - Contaminated clothing should be laundered before reuse.

- Contact with eyes
  - If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
  - Irrigate eyes thoroughly while lifting eyelids.
  - Seek medical advice if necessary.

- Ingestion
  - Rinse mouth with water (do not swallow).
  - Never make an unconscious person vomit or drink fluids.
  - If medical advice is needed, have product container or label at hand.

- Inhalation
  - If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  - Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.

SECTION 5  Fire-fighting measures

5.1 Extinguishing media
- In case of fire: use water spray, foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- See Section 10.

5.3 Advice for firefighters
- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus, if necessary.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products
- May include carbon oxides.

SECTION 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Spills should be cleaned up immediately to avoid slip and fall accidents and injuries.
- Wear protective clothing as per Section 8.
- Evacuate personnel not directly involved in spill clean-up.
- Shut off source of leak/release, if safe to do so.
- Shut down and/or remove equipment in spill area, if safe to do so.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.

6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up.
- Dike large spills as necessary.
- Place in sealable containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

6.4 Reference to other sections
- See Section 7 for storage. For disposal, see Section 13.
SECTION 7 Handling and storage

7.1 Precautions for safe handling
- Do not breathe mist/vapors/fumes/spray.
- Avoid contact with skin and eyes.
- Do not eat, drink, smoke, or apply cosmetics when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store at temperatures not exceeding 8°C/46°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)
- For use with Veratox and Alert Histamine kits.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters
- This product contains no substances >1% with occupational exposure limit values.

8.2 Exposure controls
- Eyewash bottles should be available.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved respiratory protection with an organic vapor cartridge.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166 or chemical splash goggles.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Clear, yellow liquid
- Odor: No information available
- pH: No information available
- Melting Point/Range: Not applicable
- Boiling Point/Range: No information available
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information
- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity
- No information available
SECTION 10 Stability and reactivity (continued)

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
- Keep away from heat and sources of ignition.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides.

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- ATEmix = 256,410 mg/kg (oral)
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Inhalation
  Not a likely route of exposure. May cause irritation in sensitive individuals if inhaled.
  Based on available data, the classification criteria are not met.
- Carcinogenicity
  Listed as Group 2B, Possibly carcinogenic to humans, in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112: Methylmercury compounds (Thimerosal) CAS No. 54-64-8.
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  No information available

SECTION 12 Ecological information

12.1 Toxicity
- This product is not classified as hazardous to the environment under U.S. regulations.

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.
SECTION 13 Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14 Transport information

14.1 UN Number
Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.
SECTION 15 Regulatory information (continued)

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information
SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312
No SARA Hazards

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

California Prop 65
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: Mercury compounds (Thimerosal) CAS No. 54-64-8.

15.4 Canadian Regulatory Information
- Inventory Status
  Domestic Substances List (DSL) Listed
  Non-Domestic Substances List (NDSL) Not listed

SECTION 16 Other information

SDS Histamine Controls: Container not labeled for individual sale.
Date of Preparation: June 2016
Revision: Rev. 0
Replaces: New issue

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
   - Product Name(s): Histamine-HRP Conjugate
   - Product Part Number(s): Used in various kits

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Use of the substance/preparation: For use in Alert and Veratox Histamine ELISA kits.
   - Use advised against: Do not use beyond expiration date. Container not labeled for individual sale.

1.3 Details of the supplier of the safety data sheet
   - Name of Manufacturer: Neogen Corporation
   - Address of Manufacturer: 620 Lesher Place
                              Lansing, Michigan 48912
                              USA
   - Telephone: 517/372-9200
   - Email: Foodsafety@neogen.com

1.4 Emergency telephone number
   - Emergency Telephone: Chemtrec: 1 (800) 424-9300
                            Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
   Classification (29 CFR 1910.1200)
   - Not classified as hazardous for supply
   Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
   - Not classified as hazardous for supply
   Classification (WHMIS 2015 HPR)
   - Not classified as hazardous for supply

   Additional information: For full text of Hazard-statements see Section 16.

2.2 Label elements
   - Signal Word: None
   - Symbols: None
   - Hazard phrases
     None
   - Precautionary Phrases
     Keep container tightly closed.
     Do not breathe mist/vapors/fumes/spray.
     Avoid contact with eyes, skin, or clothing.

2.3 Other hazards
   - May be mildly irritating to skin, eyes, and respiratory system.
   - May cause nausea or other gastrointestinal symptoms if swallowed.

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures

SECTION 4 First aid measures

4.1 Description of first aid measures
   - General
     In case of doubt, or when symptoms persist, seek medical attention.
     If used as directed, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
SECTION 4  First aid measures (continued)

- Contact with skin
  Remove contaminated clothing.
  Wash affected area with plenty of soap and water.
  If skin irritation or rash occurs: Get medical advice/attention.
  Contaminated clothing should be laundered before reuse.

- Contact with eyes
  If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
  Irrigate eyes thoroughly while lifting eyelids.
  Seek medical advice if necessary.

- Ingestion
  Rinse mouth with water (do not swallow).
  Never make an unconscious person vomit or drink fluids.
  If medical advice is needed, have product SDS, container, or label at hand.

- Inhalation
  If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.

SECTION 5  Fire-fighting measures

5.1 Extinguishing media
- In case of fire: use water spray, foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
  - See Section 10.

5.3 Advice for firefighters
- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus, if necessary.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products
- None known

SECTION 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Spills should be cleaned up immediately to avoid slip and fall accidents and injuries.
- Wear protective clothing as per Section 8.
- Evacuate personnel not directly involved in spill clean-up.
- Shut off source of leak/release, if safe to do so.
- Shut down and/or remove equipment in spill area, if safe to do so.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.

6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up.
- Dike large spills as necessary.
- Place in sealable containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

6.4 Reference to other sections
- See Section 7 for storage. For disposal, see Section 13.
SECTION 7  Handling and storage

7.1 Precautions for safe handling
- Do not breathe mist/vapors/fumes/spray.
- Avoid contact with skin and eyes.
- Do not eat, drink, smoke, or apply cosmetics when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store refrigerated at temperatures between 2-8°C (35-46°F). Do not freeze.
- Do not use kit components beyond expiration date.
- Do not mix kit reagents from one kit serial with reagents from a different kit serial.

7.3 Specific end use(s)
- For use inAlert and Veratox Histamine ELISA kits.

SECTION 8  Exposure controls/personal protection

8.1 Control parameters
- There are no recommended or established controls for this product.

8.2 Exposure controls
- Eyewash bottles should be available.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved respiratory protection with an organic vapor cartridge.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166 or chemical splash goggles.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

Gloves  Safety Glasses  Lab Coat

SECTION 9  Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Clear, brown liquid
- Odor: Slight to no odor
- pH: No information available
- Melting Point/Range: Not applicable
- Boiling Point/Range: No information available
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information
- No information available
SECTION 10 Stability and reactivity

10.1 Reactivity
- No information available

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
- None known

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- None known

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  May cause nausea or other gastrointestinal symptoms if swallowed.
  Based on available data, the classification criteria are not met.
- Inhalation
  Not a likely route of exposure. May cause irritation in sensitive individuals if inhaled.
  Based on available data, the classification criteria are not met.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  No evidence of teratogenic effects.

SECTION 12 Ecological information

12.1 Toxicity
- This product is not classified as hazardous to the environment under U.S. regulations.

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.
SECTION 13  Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14  Transport information

14.1 UN Number
- Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable
SECTION 15  Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information
   SARA 302 Components
   No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
   SARA 313 Components
   The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
   SARA 311/312
   No SARA Hazards
   Toxic Substance Control Act (TSCA)
   All components of this material are either listed or exempt from listing on the TSCA Inventory.

15.4 Canadian Regulatory Information
- Inventory Status
  Domestic Substances List (DSL)  Listed
  Non-Domestic Substances List (NDSL)  Not listed

SECTION 16  Other information

SDS Histamine-HRP Conjugate: Container not labeled for individual sale.
Date of Preparation:  June 2016
Revision:  Rev. 0
Replaces:  New issue

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
   - Product Name: Substrate
   - Product Part Number(s): 308189, Used in various kits, not sold individually

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Use of the substance/preparation: Intended for research and manufacturing use only.
   - Use advised against: No information available

1.3 Details of the supplier of the safety data sheet
   - Name of Manufacturer: Neogen Corporation
   - Address of Manufacturer: 620 Lesher Place
     Lansing, MI 48912
     USA
   - Telephone: 517/372-9200
   - Email: foodsafety@neogen.com

1.4 Emergency telephone number
   - Emergency Telephone: Chemtrec: 1 (800) 424-9300
     Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
   Classification (OSHA 29 CFR 1910.1200)
   - Not classified as hazardous for supply
   Classification (WHMIS 2015 HPR)
   - Not classified as hazardous for supply
   Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
   - Not classified as hazardous for supply

   Additional information: For full text of Hazard-statements: see Section 16.

2.2 Label elements
   - Signal Word: None
   - Symbols: None
   - Hazard phrases
     None
   - Precautionary Phrases
     Keep container tightly closed.
     Do not breathe mist/vapors/fumes/spray.
     Do not get in eyes, on skin, or on clothing.

2.3 Other hazards
   - May be mildly irritating to skin and eyes.
   - May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures
   This product is a mixture of the substances listed below with the addition of non-hazardous materials:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Concentration</th>
<th>CAS No.</th>
<th>EC Number</th>
<th>R/H Phrases</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Ingredient 1</td>
<td>&lt; 5%</td>
<td>n/a</td>
<td>n/a</td>
<td>H315, H319, H335, H360</td>
<td>GHS07, GHS08</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

- For full text of Hazard-statements see Section 16.
SECTION 4  First aid measures

4.1 Description of first aid measures
- General
  In case of doubt, or when symptoms persist, seek medical attention.
  In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
- Contact with skin
  Remove contaminated clothing.
  Wash affected area with plenty of soap and water.
  If skin irritation or rash occurs: Get medical advice/attention.
  Contaminated clothing should be laundered before reuse.
- Contact with eyes
  If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
  Irrigate eyes thoroughly while lifting eyelids.
  Seek medical advice if necessary.
- Ingestion
  Rinse mouth with water (do not swallow).
  Never make an unconscious person vomit or drink fluids.
  If medical advice is needed, have product container or label at hand.
- Inhalation
  If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.

SECTION 5  Fire-fighting measures

5.1 Extinguishing media
- In case of fire: use foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- See Section 10.

5.3 Advice for firefighters
- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus.
- Wear protective clothing as per Section 8.

SECTION 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Spills should be cleaned up immediately to avoid slip and fall accidents and injuries.
- Wear protective clothing as per Section 8.
- Evacuate personnel not directly involved in spill clean-up.
- Shut off source of leak/release, if safe to do so.
- Shut down and/or remove equipment in spill area, if safe to do so.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.

6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up.
- Dike large spills as necessary.
- Place in sealable containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.
SECTION 6 Accidental release measures (continued)

6.4 Reference to other sections
- See Section 7 for storage. For disposal, see Section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling
- Do not breathe mist/vapors/fumes/spray.
- Avoid contact with skin and eyes.
- Do not eat, drink, smoke, or apply cosmetics when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store at temperatures not exceeding 8°C/46°F.
- Avoid direct exposure to sunlight.
- Store only in high quality colored plastic or amber glass bottles.
- Keep away from common metal ions (like iron).
- Avoid the use of rubber stoppers and bottle caps containing rubber rings.

7.3 Specific end use(s)
- Intended for research and manufacturing use only.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters
- There are no recommended or established controls for this product.

8.2 Exposure controls
- Eyewash bottles should be available.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved respiratory protection with an organic vapor cartridge.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166 or chemical splash goggles.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Clear to faint blue solution
- Odor: Odorless
- pH: Not applicable
- Melting Point/Range: Not applicable
- Boiling Point/Range: Not determined
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Completely soluble in water
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: No information available
SECTION 9  Physical and chemical properties (continued)

- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer.

9.2 Other information
- No information available

SECTION 10  Stability and reactivity

10.1 Reactivity
- No information available

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
- Avoid direct exposure to sunlight.
- Keep away from heat and sources of ignition.

10.5 Incompatible materials
- Incompatible with some common metal ions (such as iron).
- Avoid the use of rubber stoppers and caps containing rubber rings.

10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides.

SECTION 11  Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for mixture
- ATEmix = 72,424 mg/kg
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Inhalation
  Not a likely route of exposure. May cause irritation in sensitive individuals if inhaled.
  Based on available data, the classification criteria are not met.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No information available
- Teratogenicity
  No information available

SECTION 12  Ecological information

12.1 Toxicity
- This product is not classified as hazardous to the environment under U.S. regulations.

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available
SECTION 12  Ecological information (continued)

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated
- On available data, substance is not harmful to the environment

SECTION 13  Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, state, national, or international legislation.
- Do not discharge into drains or the environment; dispose to an authorized liquid waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14  Transport information

14.1 UN Number
- Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

14.7 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
  - DOT UN No.: Not applicable
  - DOT Hazard Class: Not applicable
  - DOT Packing Group: Not applicable

14.8 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
  - ADR UN No.: Not applicable
  - ADR Hazard Class: Not applicable
  - ADR Packing Group: Not applicable
  - Tunnel Code: Not applicable

14.9 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
  - IMDG UN No.: Not applicable
  - IMDG Hazard Class: Not applicable
  - IMDG Packing Group: Not applicable
SECTION 14 Transport information (continued)

14.10 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200. 

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312
No SARA Hazards

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

California Prop 65
WARNING: this product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

15.4 Canadian Regulatory Information
- Inventory Status
  Domestic Substances List (DSL)  Listed  
  Non-Domestic Substances List (NDSL)  Listed

SECTION 16 Other information

SDS-Enhanced K-Blue Substrate: Not labeled for individual sale.
Date of Preparation: June 2016
Revision: Rev. 02
Replaces: Rev. 01

Text not given with phrase codes where they are used elsewhere in this safety data sheet: H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H360: May damage fertility or the unborn child.

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
- Product Name: Red Stop
- Product Part Number: 301210, Used in various kits, not sold individually

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: For use with ELISA kits
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 620 Lesher Place
  Lansing, Michigan 48912
  USA
- Telephone: 517/372-9200
- Email: Foodsafety@neogen.com

1.4 Emergency telephone number
- Emergency Telephone: Chemtrec: 1 (800) 424-9300
  Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
  Classification (29 CFR 1910.1200)
  - Not classified as hazardous for supply
  Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
  - Not classified as hazardous for supply
  Classification (WHMIS 2015 HPR)
  - Not classified as hazardous for supply
  Additional information: For full text of Hazard-statements see Section 16.

2.2 Label elements
- Signal Word: None
- Symbols: None
- Hazard phrases
  None
- Precautionary Phrases
  Keep container tightly closed.
  Do not breathe mist/vapors/fumes/spray.
  Avoid contact with eyes, skin, or clothing.

2.3 Other hazards
- May be mildly irritating to skin and eyes.
- May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances
3.2 Mixtures

SECTION 4 First aid measures

4.1 Description of first aid measures
- General
  In case of doubt, or when symptoms persist, seek medical attention.
  In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
SECTION 4  First aid measures (continued)

- Contact with skin
  - Remove contaminated clothing.
  - Wash affected area with plenty of soap and water.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - Contaminated clothing should be laundered before reuse.

- Contact with eyes
  - If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
  - Irrigate eyes thoroughly while lifting eyelids.
  - Seek medical advice if necessary.

- Ingestion
  - Rinse mouth with water (do not swallow).
  - Never make an unconscious person vomit or drink fluids.
  - If medical advice is needed, have product container or label at hand.

- Inhalation
  - If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  - Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

SECTION 5  Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use water spray, foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- See Section 10.

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus, if necessary.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products

- May include carbon oxides.

SECTION 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Spills should be cleaned up immediately to avoid slip and fall accidents and injuries.
- Wear protective clothing as per Section 8.
- Evacuate personnel not directly involved in spill clean-up.
- Shut off source of leak/release, if safe to do so.
- Shut down and/or remove equipment in spill area, if safe to do so.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up.
- Dike large spills as necessary.
- Place in sealable containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

6.4 Reference to other sections

- See Section 7 for storage. For disposal, see Section 13.
SECTION 7 Handling and storage

7.1 Precautions for safe handling
- Do not breathe mist/vapors/fumes/spray.
- Avoid contact with skin and eyes.
- Do not eat, drink, smoke, or apply cosmetics when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store at temperatures not exceeding 8°C/46ºF. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)
- For use with ELISA kits

SECTION 8 Exposure controls/personal protection

8.1 Control parameters
- This product contains no substances >1% with occupational exposure limit values.

8.2 Exposure controls
- Eyewash bottles should be available.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved respiratory protection with an organic vapor cartridge.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166 or chemical splash goggles.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Clear red liquid
- Odor: No information available
- pH: 8.7
- Melting Point/Range: Not applicable
- Boiling Point/Range: No information available
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: No information available
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information
- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity
- No information available
SECTION 10 Stability and reactivity (continued)

10.2 Chemical stability
   - Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
   - No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
   - None known

10.5 Incompatible materials
   - None known

10.6 Hazardous Decomposition Products
   - Decomposition products may include carbon oxides.

SECTION 11 Toxicological information

11.1 Information on toxicological effects
   - No experimental test data available for the mixture
   - \( \text{ATEmixture} = 12,195 \text{ mg/kg (oral)} \)
   - Contact with skin
     May cause redness and irritation in sensitive individuals.
     Based on available data, the classification criteria are not met.
   - Contact with eyes
     May cause redness and irritation in sensitive individuals.
     Based on available data, the classification criteria are not met.
   - Ingestion
     Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
     Based on available data, the classification criteria are not met.
   - Inhalation
     Not a likely route of exposure. May cause irritation in sensitive individuals if inhaled.
     Based on available data, the classification criteria are not met.
   - Carcinogenicity
     Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
     Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
     Not listed in OSHA standard 1910.1003 Carcinogens.
   - Mutagenicity
     No evidence of mutagenic effects.
   - Teratogenicity
     No evidence of teratogenic effects.

SECTION 12 Ecological information

12.1 Toxicity
   - This product is not classified as hazardous to the environment under U.S. regulations.

12.2 Persistence and degradability
   - No information available

12.3 Bioaccumulation Potential
   - No information available

12.4 Mobility in soil
   - No information available

12.5 Results of PBT and vPvB assessment
   - Not a PBT according to REACH Annex XIII
   - PBT/vPvB assessment not available

12.6 Other Adverse Effects
   - To the best of our knowledge, the properties of this material have not been fully evaluated.
   - On available data, substance is not harmful to the environment.
SECTION 13  Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14  Transport information

14.1 UN Number
   Not classified as hazardous for transport

14.2 UN Proper Shipping Name
   - Not applicable

14.3 Transport hazard class(es)
   - Not applicable

14.4 Packing group
   - Not applicable

14.5 Environmental hazards
   - Not classified

14.6 Special precautions for user
   - Not classified

14.7 Domestic Surface Transport (US DOT)
   - Proper Shipping Name: Not applicable
   - DOT UN No.: Not applicable
   - DOT Hazard Class: Not applicable
   - DOT Packing Group: Not applicable

14.8 International Road/Rail (ADR/RID)
   - Proper Shipping Name: Not applicable
   - ADR UN No.: Not applicable
   - ADR Hazard Class: Not applicable
   - ADR Packing Group: Not applicable
   - Tunnel Code: Not applicable

14.9 Ocean/Sea (IMO/IMDG)
   - Proper Shipping Name: Not applicable
   - IMDG UN No.: Not applicable
   - IMDG Hazard Class: Not applicable
   - IMDG Packing Group: Not applicable

14.10 Air (ICAO/IATA)
   - Proper Shipping Name: Not applicable
   - ICAO UN No.: Not applicable
   - ICAO Hazard Class: Not applicable
   - ICAO Packing Group: Not applicable

SECTION 15  Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.
SECTION 15 Regulatory information (continued)

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312
No SARA Hazards

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

15.4 Canadian Regulatory Information
- Inventory Status
  Domestic Substances List (DSL)  Listed
  Non-Domestic Substances List (NDSL)  Not listed

SECTION 16 Other information

SDS Red Stop: Not labeled for individual sale.
Date of Preparation: June 2016
Revision: Rev. 02
Replaces: Rev. 01

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
- Product Name(s): Phosphate Buffered Saline (PBS) foil pack
- Product Part Number(s): Used in Various Kits

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: For use in ELISA kits to prepare extraction solvent.
- Use advised against: Do not use after expiration date.

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 620 Lesher Place
  Lansing, Michigan 48912
  USA
- Telephone: 517/372-9200
- Email: Foodsafety@neogen.com

1.4 Emergency telephone number
- Emergency Telephone: Chemtrec: 1 (800) 424-9300
  Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
- Classification (29 CFR 1910.1200)
- Not classified as hazardous for supply
- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Not classified as hazardous for supply
- Classification (WHMIS 2015 HPR)
- Not classified as hazardous for supply

Additional information: For full text of Hazard-statements see Section 16.

2.2 Label elements
- Signal Word: None
- Symbols: None
- Hazard phrases
  None
- Precautionary Phrases
  Do not breathe dust.
  Avoid contact with eyes, skin, or clothing.

2.3 Other hazards
- May be mildly irritating to skin and eyes.
- May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances
3.2 Mixtures

SECTION 4 First aid measures

4.1 Description of first aid measures
- General
  In case of doubt, or when symptoms persist, seek medical attention.
  In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.

  - Contact with skin
    Remove contaminated clothing.
    Wash affected area with plenty of soap and water.
SECTION 4 First aid measures (continued)
   - If skin irritation or rash occurs: Get medical advice/attention.
     Contaminated clothing should be laundered before reuse.
   - Contact with eyes
     - If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
     - Irrigate eyes thoroughly while lifting eyelids.
     - Seek medical advice if necessary.
   - Ingestion
     - Rinse mouth with water (do not swallow).
     - Never make an unconscious person vomit or drink fluids.
     - If medical advice is needed, have product container or label at hand.
   - Inhalation
     - If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
     - Call a poison center or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
   - The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
   - Treat symptomatically.

SECTION 5 Fire-fighting measures
5.1 Extinguishing media
   - In case of fire: use foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture
   - Smoke from fires is toxic. Take precautions to protect personnel from exposure.
   - Decomposition products may include carbon oxides.
   - See Section 10.

5.3 Advice for firefighters
   - Keep container(s) exposed to fire cool, by spraying with water.
   - Wear chemical protection suit and positive-pressure breathing apparatus.
   - Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products
   - May include carbon oxides.

SECTION 6 Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
   - Shut off all ignition sources and use non-sparking tools.
   - Avoid raising dust.
   - Wear protective clothing as per Section 8.
   - Remove contaminated clothing and wash thoroughly after dealing with spillage.

6.2 Environmental Precautions
   - Do not allow to enter public sewers and watercourses.
   - Avoid releasing to the environment.

6.3 Methods and material for containment and cleaning up
   - Sweep up and shovel/collect for disposal.
   - Place in sealable containers and label them.
   - Ventilate the area and wash spill site after material pick-up is complete.
   - Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

6.4 Reference to other sections
   - See Section 7 for storage. For disposal, see Section 13.

SECTION 7 Handling and storage
7.1 Precautions for safe handling
   - Do not breathe dust.
   - Avoid contact with skin and eyes.
   - Do not eat, drink, smoke, or apply cosmetics when using this product.
SECTION 7 Handling and storage (continued)
- Ensure adequate ventilation.
- Eye wash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store 2-8°C. Do not freeze.
- Do not use after expiration date.
- Keep away from oxidizing substances.

7.3 Specific end use(s)
- For use in ELISA kits to prepare extraction solvent.

SECTION 8 Exposure controls/personal protection
8.1 Control parameters
- There are no recommended or established controls for this product.

8.2 Exposure controls
- Eye wash bottles should be available.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

SECTION 9 Physical and chemical properties
9.1 Information on basic physical and chemical properties
- Appearance: White granular powder
- Odor: Odorless
- pH: 7.4, in 1L deionized or distilled water
- Melting Point/Range: No information available
- Boiling Point/Range: Not applicable
- Flash point: No information available
- Evaporation Rate: Not applicable
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: Product is a powder
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information
- No information available

SECTION 10 Stability and reactivity
10.1 Reactivity
- No information available

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.
SECTION 10  Stability and reactivity (continued)

10.4 Conditions to avoid
- Do not freeze.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides.

SECTION 11  Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- ATEmix = 3,846 mg/kg (oral)
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Inhalation
  May cause irritation in sensitive individuals if inhaled.
  Based on available data, the classification criteria are not met.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  No evidence of teratogenic effects.

SECTION 12  Ecological information

12.1 Toxicity

Sodium chloride
Toxicity to fish
  LC₅₀ – Lepomis macrochirus (Bluegill) = 5840 mg/L-96h
Toxicity to daphnia and other aquatic invertebrates
  EC₅₀ – Daphnia magna (Water flea) = 1661 mg/L-48h

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.

SECTION 13  Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
SECTION 13  Disposal considerations (continued)
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14  Transport information
14.1 UN Number
Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15  Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.
SECTION 15 Regulatory information (continued)

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312
No SARA Hazards

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

State Right-to-Know
Massachusetts
Sodium phosphate dibasic, CAS No. 7558-79-4

New Jersey
Sodium phosphate dibasic, CAS No. 7558-79-4

Pennsylvania
Sodium phosphate dibasic, CAS No. 7558-79-4

15.4 Canadian Regulatory Information

- Inventory Status
  Domestic Substances List (DSL) Listed
  Non-Domestic Substances List (NDSL) Not listed

SECTION 16 Other information

Date of Preparation: June 2016
Revision: Rev. 0
Replaces: New issue

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
- Product Name: Wash Buffer Concentrate
- Product Part Number: Used in various kits

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: For use in various kits.
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 620 Leshier Place
  Lansing, Michigan 48912
  USA
- Telephone: 517/372-9200
- Email: Foodsafety@neogen.com

1.4 Emergency telephone number
- Emergency Telephone: Chemtrec: 1 (800) 424-9300
  Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
  Classification (29 CFR 1910.1200)
  - Not classified as hazardous for supply
  Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
  - Not classified as hazardous for supply
  Classification (WHMIS 2015 HPR)
  - Not classified as hazardous for supply

  Additional information: For full text of Hazard-statements see Section 16.

2.2 Label elements
- Signal Word: None
- Symbols: None
- Hazard phrases
  None
- Precautionary Phrases
  Keep container tightly closed.
  Do not breathe mist/vapors/fumes/spray.
  Avoid prolonged contact with eyes, skin, or clothing.

2.3 Other hazards
- May be mildly irritating to skin and eyes.
- May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures
- This product does not contain any hazardous substances at the concentration limits given in

SECTION 4 First aid measures

4.1 Description of first aid measures
- General
  In case of doubt, or when symptoms persist, seek medical attention.
  In general, this product is not hazardous to humans or animals, but like any other chemical, it
  should be treated with care, respect, and common sense.
SECTION 4  First aid measures (continued)

- Contact with skin
  Remove contaminated clothing.
  Wash affected area with plenty of soap and water.
  If skin irritation or rash occurs: Get medical advice/attention.
  Contaminated clothing should be laundered before reuse.

- Contact with eyes
  If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
  Irrigate eyes thoroughly while lifting eyelids.
  Seek medical advice if necessary.

- Ingestion
  Rinse mouth with water (do not swallow).
  Never make an unconscious person vomit or drink fluids.
  If medical advice is needed, have product container or label at hand.

- Inhalation
  If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.

SECTION 5  Fire-fighting measures

5.1 Extinguishing media
- In case of fire: use water spray, foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
  - See Section 10.

5.3 Advice for firefighters
- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus, if necessary.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products
- May include carbon oxides.

SECTION 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Spills should be cleaned up immediately to avoid slip and fall accidents and injuries.
- Wear protective clothing as per Section 8.
- Evacuate personnel not directly involved in spill clean-up.
- Shut off source of leak/release, if safe to do so.
- Shut down and/or remove equipment in spill area, if safe to do so.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.

6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up.
- Dike large spills as necessary.
- Place in sealable containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

6.4 Reference to other sections
- See Section 7 for storage. For disposal, see Section 13.
SECTION 7 Handling and storage

7.1 Precautions for safe handling
- Do not breathe mist/vapors/fumes/spray.
- Avoid contact with skin and eyes.
- Do not eat, drink, smoke, or apply cosmetics when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store at temperatures not exceeding 8°C/46°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)
- For use with various kits.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters
- This product contains no substances >1% with occupational exposure limit values

8.2 Exposure controls
- Eyewash bottles should be available.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved respiratory protection with an organic vapor cartridge.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166 or chemical splash goggles.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Clear, colorless liquid
- Odor: No information available
- pH: 7.5
- Melting Point/Range: Not applicable
- Boiling Point/Range: No information available
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: No information available
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information
- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity
- No information available
SECTION 10 Stability and reactivity (continued)

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
- Keep away from heat and sources of ignition.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides.

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- ATEmix = 16,129 mg/kg (oral)
- Contact with skin
  - May cause redness and irritation in sensitive individuals.
  - Based on available data, the classification criteria are not met.
- Contact with eyes
  - May cause redness and irritation in sensitive individuals.
  - Based on available data, the classification criteria are not met.
- Ingestion
  - Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
  - Based on available data, the classification criteria are not met.
- Inhalation
  - Not a likely route of exposure. May cause irritation in sensitive individuals if inhaled.
  - Based on available data, the classification criteria are not met.
- Carcinogenicity
  - Listed as Group 2B, Possibly carcinogenic to humans, in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112: Methylmercury compounds (Thimerosal), CAS No. 54-64-8
  - Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  - Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  - No evidence of mutagenic effects.
- Teratogenicity
  - No information available

SECTION 12 Ecological information

12.1 Toxicity
- This product is not classified as hazardous to the environment under U.S. regulations.

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.
SECTION 13  Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14  Transport information

14.1 UN Number
Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15  Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.
SECTION 15  Regulatory information (continued)


15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312
No SARA Hazards

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

State Right-to-Know
Massachusetts
Sodium phosphate dibasic, CAS No. 7558-79-4
New Jersey
Sodium phosphate dibasic, CAS No. 7558-79-4
Pennsylvania
Sodium phosphate dibasic, CAS No. 7558-79-4

California Prop 65
WARNING: This product contains a chemical known to the State of California to cause birth defects of other reproductive harm: Mercury compounds (Thimerosal), CAS No. 54-64-8

15.4 Canadian Regulatory Information
- Inventory Status
  | Domestic Substances List (DSL) | Non-Domestic Substances List (NDSL) |
  | Listed                     | Not listed                  |

SECTION 16  Other information

Date of Preparation: June 2016
Revision: Rev. 0
Replaces: New issue

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
   - Product Name(s): Phosphate Buffered Saline with Tween 20, pH 7.4, Wash Buffer Concentrate
   - Product Part Number(s): P-3563, 9506

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Use of the substance/preparation: For use with kit 9506
   - Use advised against: No information available

1.3 Details of the supplier of the safety data sheet
   - Name of Manufacturer: Sigma
   - Address of Manufacturer: 3050 Spruce St
     St. Louis, MO 63103
     USA
   - Telephone: 517/372-9200
   - Email: Foodsafety@neogen.com

1.4 Emergency telephone number
   - Emergency Telephone: Chemtrec: 1 (800) 424-9300
     Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
   - Classification (29 CFR 1910.1200)
   - Not classified as hazardous for supply
   - Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
   - Not classified as hazardous for supply
   - Classification (WHMIS 2015 HPR)
   - Not classified as hazardous for supply

   Additional information: For full text of Hazard-statements see Section 16.

2.2 Label elements
   - Signal Word: None
   - Symbols: None
   - Hazard phrases
     None
   - Precautionary Phrases
     Keep container tightly closed.
     Do not breathe dust.
     Avoid contact with eyes, skin, or clothing.

2.3 Other hazards
   - May be mildly irritating to skin and eyes.
   - May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures
   - This product is a mixture of the substances listed below with the addition of non-hazardous materials

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Concentration</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>H-Statements</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride</td>
<td>1 – 5%</td>
<td>7447-40-7</td>
<td>231-211-8</td>
<td>H402, H412</td>
<td>NA</td>
</tr>
</tbody>
</table>

SECTION 4 First aid measures

4.1 Description of first aid measures
   - General
     In case of doubt, or when symptoms persist, seek medical attention.
SECTION 4  First aid measures (continued)

In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.

- **Contact with skin**
  - Remove contaminated clothing.
  - Wash affected area with plenty of soap and water.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - Contaminated clothing should be laundered before reuse.

- **Contact with eyes**
  - If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
  - Irrigate eyes thoroughly while lifting eyelids.
  - Seek medical advice if necessary.

- **Ingestion**
  - Rinse mouth with water (do not swallow).
  - Never make an unconscious person vomit or drink fluids.
  - If medical advice is needed, have product container or label at hand.

- **Inhalation**
  - If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  - Call a poison center or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

SECTION 5  Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
  - See Section 10.

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products

- May include carbon oxides.

SECTION 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off all ignition sources and use non-sparking tools.
- Spills should be cleaned up immediately to avoid slip and fall accidents and injuries.
- Wear protective clothing as per Section 8.
- Evacuate personnel not directly involved in spill clean-up.
- Shut off source of leak/release, if safe to do so.
- Shut down and/or remove equipment in spill area, if safe to do so.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.

6.3 Methods and material for containment and cleaning up

- Sweep up and collect for disposal. Avoid raising dust.
- Place in sealable containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.
SECTION 6 Accidental release measures (continued)

6.4 Reference to other sections
- See Section 7 for storage. For disposal, see Section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling
- Do not breathe dust.
- Avoid contact with skin and eyes.
- Do not eat, drink, smoke, or apply cosmetics when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store at temperatures not exceeding 8°C/46°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from oxidizing substances.

7.3 Specific end use(s)
- For use with kit 9506

SECTION 8 Exposure controls/personal protection

8.1 Control parameters
- There are no recommended or established controls for this product.

8.2 Exposure controls
- Eyewash bottles should be available.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask. NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Powder
- Odor: No information available
- pH: 7.4
- Melting Point/Range: No information available
- Boiling Point/Range: Not applicable
- Flashpoint: No information available
- Evaporation Rate: Not applicable
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: No information available
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer
SECTION 9 Physical and chemical properties (continued)

9.2 Other information
- No information available

SECTION 10 Stability and reactivity
10.1 Reactivity
- No information available
10.2 Chemical stability
- Considered stable under normal conditions.
10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid
- Avoid contact with moisture.
10.5 Incompatible materials
- None known
10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides.

SECTION 11 Toxicological information
11.1 Information on toxicological effects
- No experimental test data available for the mixture
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Inhalation
  May cause irritation in sensitive individuals if inhaled.
  Based on available data, the classification criteria are not met.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  No evidence of teratogenic effects.

SECTION 12 Ecological information
12.1 Toxicity
- This product is not classified as hazardous to the environment under U.S. regulations.
12.2 Persistence and degradability
- No information available
12.3 Bioaccumulation Potential
- No information available
12.4 Mobility in soil
- No information available
SECTION 12 Ecological information (continued)

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.

SECTION 13 Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14 Transport information

14.1 UN Number
- Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable
SECTION 14 Transport information (continued)

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312
- Acute Health Hazard: No
- Chronic Health Hazard: Yes
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

State Right-to-Know
Massachusetts
Disodium hydrogenorthophosphate, CAS No. 7558-79-4
Pennsylvania
Sodium Chloride, CAS No. 7647-14-5
Tween 20, CAS No. 9005-64-5
Disodium hydrogenorthophosphate, CAS No. 7558-79-4
New Jersey
Sodium Chloride, CAS No. 7647-14-5
Tween 20, CAS No. 9005-64-5
Disodium hydrogenorthophosphate, CAS No. 7558-79-4
Potassium dihydrogenorthophosphate, CAS No. 7778-77-0

15.4 Canadian Regulatory Information
- Inventory Status
  Domestic Substances List (DSL) Listed
  Non-Domestic Substances List (NDSL) Not listed
SECTION 16 Other information

Date of Preparation: June 2016
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Repales: New issue

Text not given with phrase codes where they are used elsewhere in this safety data sheet: H402: Harmful to aquatic life. H412: Harmful to aquatic life with long lasting effects.

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