

Part Number: 902085J

BioKits Walnut Assay Kit

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:

Walnut Standards 1-5

Walnut Biotin

Avidin Peroxidase Conjugate

K-Blue[®] Advanced TMB Substrate **Substrate change starting with Lot No. 266201**

Wash Solution Concentrate

Diluent Concentrate Type 8

Stop Solution

SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **Walnut Standards 1-5**
- Product Part Number: **902085J**

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For use with BioKit 902085J
- 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 Leshar 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 dust/mist/vapors/fumes.
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 does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200.

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, immediately wash out 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 victim 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 carbonoxides.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off all ignition sources.
- Use non-sparking hand tools.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- 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.
- Place in sealable container.
- Seal 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/mist/vapors/fumes.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke 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 BioKit 902085J

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- This product contains no substances >1% with occupation exposure limit values.

8.2 Exposure controls

- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- 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 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: 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

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.
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- No experimental test data available for the mixture
 - ATEmix = 200,000 mg/kg (oral)
 - Contact with skin
May cause redness and irritation in sensitive individuals.
 - Contact with eyes
May cause redness and irritation in sensitive individuals.
 - Ingestion
Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
 - Inhalation
Not a likely route of exposure. May cause irritation in sensitive individuals.
 - 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
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SECTION 12 Ecological information

12.1 Toxicity

- This product contains no substances >1% with ecological toxicity values.

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.
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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)

- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

15.2 Chemical Safety Assessment

- No information available

15.3 United States Regulatory InformationSARA 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 and 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

Date of Preparation: January 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: **Walnut Biotin**
- Product Part Number: **902085J**

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For use with BioKit 902085J
- 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 Leshar 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 dust/mist/vapors/fumes.
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 does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200.

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.

SECTION 4 First aid measures (continued)

- 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, immediately wash out 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 victim 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

- Shut off all ignition sources.
- Use non-sparking hand tools.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- 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.
- Place in sealable container.
- Seal 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.
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SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Do not breathe dust/mist/vapors/fumes.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke 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 BioKit 902085J.

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.
- Engineering controls should be provided to prevent the need for ventilation.
- 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 pink 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: 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

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
 - ATE_{mix} = 263,158 mg/kg (oral)
 - Contact with skin
May cause redness and irritation in sensitive individuals.
 - Contact with eyes
May cause redness and irritation in sensitive individuals.
 - Ingestion
Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
 - Inhalation
Not a likely route of exposure. May cause irritation in sensitive individuals.
 - 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)
Listed as Group 3, Not classifiable as to its carcinogenicity to humans, in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112: Hydrochloric Acid, CAS No. 7647-01-0
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

SECTION 12 Ecological information (continued)

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
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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.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

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

Date of Preparation: January 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: **Avidin Peroxidase Conjugate**
- Product Part Number: **902085J, 902072T, 902061Y, 902070X**

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For use with BioKits
- 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 Leshar 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 dust/mist/vapors/fumes.
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 does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200.

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, immediately wash out 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 victim 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

- Shut off all ignition sources.
- Use non-sparking hand tools.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- 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.
- Place in sealable container.
- Seal 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/mist/vapors/fumes.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke 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 BioKits

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.
- Engineering controls should be provided to prevent the need for ventilation.
- 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 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: 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

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
 - ATE_{mix} = 263,158 mg/kg (oral)
 - Contact with skin
 - May cause redness and irritation in sensitive individuals.
 - Contact with eyes
 - May cause redness and irritation in sensitive individuals.
 - Ingestion
 - Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
 - Inhalation
 - Not a likely route of exposure. May cause irritation in sensitive individuals.
 - 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 contains no substances >1% with ecological toxicity values

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.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

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 and 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

Date of Preparation: January 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.



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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K-Blue ® Advanced TMB Substrate

Revision 1
Revision date 2018-07-31

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	K-Blue ® Advanced TMB Substrate
Product code	319175, 319176, 319177, 319257, 319171, 319210-L, 319210, 319170-W, 319174-W.

1.1. Product identifier

1.2. Relevant identified uses of the substance or mixture and uses advised against

Description	Substrate Solution.
-------------	---------------------

1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshar Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	regulatorysupport@neogen.com

1.4. Emergency telephone number

Emergency telephone number	1-800-234-5333
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Further information

Manufactured By:	Neogen Corporation 944 Nandino Blvd. Lexington, KY 40511-1205 U.S.A.
Hotline(s):	Medical: United States (1-800-498-5743), International (1-651-523-0318). Spill/CHEMTREC: United States (1-800-424-9300), International (1-703-527-3887).

SECTION 2: Hazards identification

2.2. Label elements

Hazard Statements	No Significant Hazard
-------------------	-----------------------

2.3. Other hazards

Other hazards	No data is available on this product.
---------------	---------------------------------------

SECTION 3: Composition/information on ingredients

3.2. Mixtures

K-Blue ® Advanced TMB Substrate

Revision 1
Revision date 2018-07-31

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
2-Pyrrolidinone		616-45-5	210-483-1			Eye Irrit. 2: H319;
Urea hydrogen peroxide		124-43-6	204-701-4			Ox. Sol. 3: H272; Skin Corr. 1B: H314; Eye Dam. 1: H318;

Further information

The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

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

Inhalation	If you feel unwell, seek medical advice (show the label where possible).
Eye contact	Immediate medical attention is required.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Wash hands after handling the product.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean

K-Blue ® Advanced TMB Substrate

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Revision date 2018-07-31

6.3. Methods and material for containment and cleaning up

	spillage area thoroughly with plenty of water.
--	--

6.4. Reference to other sections

	See section 2, 8 & 13 for further information.
--	--

SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
--	--

7.2. Conditions for safe storage, including any incompatibilities

	Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers.
--	--

7.3. Specific end use(s)

	See section 1.2 for further information.
--	--

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Occupational exposure controls.
--	---------------------------------

8.2. Exposure controls



Appropriate engineering controls	Ensure adequate ventilation of the working area.
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Individual protection measures	Wear suitable protective clothing.
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Eye / face protection	Wear: Approved safety goggles.
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Skin protection - Hand protection	Wear: Chemical resistant gloves.
-----------------------------------	----------------------------------

Skin protection - Other	Wear suitable protective clothing.
-------------------------	------------------------------------

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
------------------------	---

Occupational exposure controls	Keep away from food, drink and animal feed and/ or feed products.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

K-Blue ® Advanced TMB Substrate

Revision 1
Revision date 2018-07-31

9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Light blue
Odor	Characteristic
pH	3.1 - 3.5
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Oxidising properties	No data available
Odour threshold	No data available
Solubility	No data available

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	No data available.
--	--------------------

10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

10.3. Possibility of hazardous reactions

	No data available.
--	--------------------

10.4. Conditions to avoid

	No data available.
--	--------------------

10.5. Incompatible materials

	No data available.
--	--------------------

10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes.
--	---

SECTION 11: Toxicological information

K-Blue ® Advanced TMB Substrate

Revision 1
Revision date 2018-07-31

11.1. Information on toxicological effects

Acute toxicity	No data available.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens. Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
Reproductive toxicity	No data available.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

11.1.4. Toxicological information

	No data available
--	-------------------

SECTION 12: Ecological information

12.1. Toxicity

	No data available
--	-------------------

12.2. Persistence and degradability

	No data available.
--	--------------------

12.3. Bioaccumulative potential

	No data available.
--	--------------------

Partition coefficient

	K-Blue ® Advanced TMB Substrate No data available
--	--

12.4. Mobility in soil

	No data available.
--	--------------------

12.5. Results of PBT and vPvB assessment

	No data available.
--	--------------------

12.6. Other adverse effects

	No data available.
--	--------------------

SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Dispose of in compliance with all local and national regulations.
--	---

Disposal methods

	Contact a licensed waste disposal company.
--	--

K-Blue ® Advanced TMB Substrate

Revision 1
Revision date 2018-07-31

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations

Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.

All chemicals in this product are TSCA listed or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.

US State Regulations:

New Jersey Right-to-Know Hazardous Substance List:

2-Pyrrolidinone: Y

Pennsylvania Right-to-Know Hazardous Substance List:

2-Pyrrolidinone: Y , 1,2, Ethanediamine, N,N'-bis(2-aminoethyl):Y.

Massachusetts Right-to-Know Hazardous Substance List: 2-Pyrrolidinone: Y.

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas..

1 - Product code.

Text of Hazard Statements in Section 3

Eye Irrit. 2: H319 - Causes serious eye irritation.

Ox. Sol. 3: H272 - May intensify fire; oxidiser.

K-Blue ® Advanced TMB Substrate

Revision 1
Revision date 2018-07-31

Other information

	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Eye Dam. 1: H318 - Causes serious eye damage.
--	---

Further information

	<p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</p>
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	<p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p>
--	---

SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **BioKits Wash Solution**
- Product Part Number: **902085J, 902072T, 902061Y, 902070X**

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For use with BioKits
- 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 Leshar 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 dust/mist/vapors/fumes.
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 does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200.

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, immediately wash out 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 victim 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

- Shut off all ignition sources.
- Use non-sparking hand tools.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- 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.
- Place in sealable container.
- Seal 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/mist/vapors/fumes.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke 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 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)

- For use with BioKits

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.
- Engineering controls should be provided to prevent the need for ventilation.
- 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 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 in water
- 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

- 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 = 33,333 mg/kg (oral)
 - Contact with skin
May cause redness and irritation in sensitive individuals.
 - Contact with eyes
May cause redness and irritation in sensitive individuals.
 - Ingestion
Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
 - Inhalation
Not a likely route of exposure. May cause irritation in sensitive individuals.
 - 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 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.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

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

Date of Preparation: January 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: **Diluent Concentrate Type8**
- Product Part Number: **902072T, 902070X, 902085J**

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For use with BioKits
- 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 Leshar 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 dust/mist/vapors/fumes.
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 does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200.
-

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, immediately wash out 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 victim to fresh air and keep at rest in a position 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

- Shut off all ignition sources.
- Use non-sparking hand tools.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- 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.
- Place in sealable container.
- Seal 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/mist/vapors/fumes.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke 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 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)

- For use with BioKits.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- This product contains no substance >1% with occupational exposure limits values.

8.2 Exposure controls

- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- 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 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

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

- 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
 - ATE_{mix} = 41,667 mg/kg (oral)
 - Contact with skin
May cause redness and irritation in sensitive individuals.
 - Contact with eyes
May cause redness and irritation in sensitive individuals.
 - Ingestion
Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
 - Inhalation
Not a likely route of exposure. May cause irritation in sensitive individuals.
 - Carcinogenicity
Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
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 OSHA standard 1910.1003 Carcinogens.
 - Mutagenicity
No information available for the mixture.
 - Teratogenicity
No information available for the mixture.
-

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

SECTION 12 Ecological information (continued)

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.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

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 and 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

Date of Preparation: January 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: **Stop Solution**
- Product Part Number: **902061Y, 902070X, 902085J, 902072T**

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: Stop solution for use with BioKits
- 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 Leshar 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)

- Skin corrosion, Cat. 1B, Serious eye damage, Cat. 1

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]

- Skin corr. 1B, H314

Classification (WHMIS 2015 HPR)

- Skin corrosion, Cat. 1B (H314), Serious eye damage, Cat. 1 (H318)

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

2.2 Label elements



GHS05

- Signal Word: Danger
- Symbols: GHS05
- Hazard phrases
 - Causes severe skin burns and eye damage.
 - Causes serious eye damage.
- Precautionary Phrases
 - Do not breathe dust/fume/gas/mist/vapors/spray.
 - Wash hands thoroughly after handling.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower.
 - Wash contaminated clothing before reuse.
 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - Immediately call a POISON CENTER or doctor/physician.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - Store locked up.
 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

- 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

Chemical	Concentration	CAS No.	EC Number	H-Statements	Symbols
Phosphoric Acid	41%	7664-38-2	231-663-2	H314, H318	GHS05

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

SECTION 4 First aid measures

4.1 Description of first aid measures

- General
In case of doubt, or when symptoms persist, seek medical attention.
Like any other chemical, this product should be treated with care, respect, and common sense.
- Contact with skin
If on skin (or hair): Take off contaminated clothing immediately and rinse affected skin with plenty of water/shower.
Contaminated clothing should be laundered before reuse.
Immediately call a poison center or doctor/physician.
- Contact with eyes
If substance has gotten into eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Irrigate eyes thoroughly while lifting eyelids.
Get immediate medical advice/attention.
- Ingestion
Rinse mouth with water (do not swallow).
Never make an unconscious person vomit or drink fluids.
Do NOT induce vomiting.
Seek immediate medical attention.
- Inhalation
If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- Prolonged skin or eye contact may cause chemical burns.
- May cause burns to mouth and throat.
- May cause gastro-intestinal disturbances.
- Vapors or aerosols may cause irritation of eye, nose and respiratory tract.

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.
- Wear protective clothing as per Section 8.
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.

5.4 Hazardous Combustion Products

- May include carbon oxides.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation.
- Avoid breathing fume/gas/mist/vapors/spray.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities.

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up.
- Place in sealable container.
- Seal 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.
- Avoid contact with skin, eyes and clothing.
- Do not eat, drink, or smoke 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)

- Stop solution for use with BioKits

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m ³	USA-OSHA Table Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1 mg/m ³	USA-NIOSH Recommended Exposure Limits
		STEL	3 mg/m ³	USA-NIOSH Recommended Exposure Limits
		TWA	1 mg/m ³	USA-ACGIH Threshold Limit Values (TLV)
		STEL	3 mg/m ³	USA-ACGIH Threshold Limit Values (TLV)
		WEL	1 mg/m ³	UK long term
		WEL	2 mg/m ³	UK short term

SECTION 8 Exposure controls/personal protection (continued)

8.2 Exposure controls

- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- 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, colorless solution
- 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 in water
- 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: No information available

9.2 Other information

- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions

- Reacts with alkalis (strong bases) and metals.

10.4 Conditions to avoid

- Avoid contact with metals.

10.5 Incompatible materials

- Incompatible with alkalis (strong bases), sodium borohydride, nitromethane and metals.

10.6 Hazardous Decomposition Products

- No information available
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- Acute toxicity
Based on available data, the classification criteria are not met.
ATEmix = 3,704 mg/kg (oral)
ATEmix = 6,667 mg/kg (dermal)
 - Contact with skin
Skin Corrosion, Cat. 1B
Classification based on calculation and concentration thresholds.
Causes severe skin burns and blistering of the skin.
 - Contact with eyes
Serious Eye Damage, Cat. 1
Classification based on calculation and concentration thresholds.
Causes redness and swelling.
May cause severe damage with formation of corneal ulcers and permanent impairment of vision.
 - Ingestion
Causes damage and corrosion of the gastrointestinal tract.
May cause damage to the stomach lining.
May cause nausea/vomiting/diarrhea.
May cause damage to the mucous membranes.
 - Inhalation
May cause irritation in sensitive individuals.
 - 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 information available
-

SECTION 12 Ecological information

- 12.1 Toxicity
 - No information available
 - 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.
 - Water Hazard Class WGK 1 – Low Hazard (Germany)
-

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.

SECTION 13 Disposal considerations (continued)

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



Corrosive

14.1 UN Number

- UN Number: 3264

14.2 UN Proper Shipping Name

- Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid solution)

14.3 Transport hazard class(es)

- 8

14.4 Packing group

- III

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: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid solution)
- DOT UN No.: 3264
- DOT Hazard Class: 8
- DOT Packing Group: III

14.9 International Road/Rail (ADR/RID)

- Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid solution)
- ADR UN No.: 3264
- ADR Hazard Class: 8
- ADR Packing Group: III
- Tunnel Code: 3 (E)

14.10 Ocean/Sea (IMO/IMDG)

- Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid solution)
- IMDG UN No.: 3264
- IMDG Hazard Class: 8
- IMDG Packing Group: III

14.11 Air (ICAO/IATA)

- Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid solution)
- ICAO Un No.: 3264
- ICAO Hazard Class: 8
- ICAO Packing Group: III

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)

- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

15.2 Chemical Safety Assessment

- No information available

15.3 United States Regulatory InformationSARA 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	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

State Right-to-Know

Massachusetts

Phosphoric Acid, CAS No. 7664-38-2

New Jersey

Phosphoric Acid, CAS No. 7664-38-2

Pennsylvania

Phosphoric Acid, CAS No. 7664-38-2

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

Date of Preparation: January 2016

Revision: Rev. 0

Replaces: New issue

Text not given with phrase codes where they are used elsewhere in this safety data sheet: H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.

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.