Product Identifier

Product Name: Cortisol ELISA Kit

Product Part Number: 402710

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

Kit Components:
- 21014 – EIA Buffer, 30mL (SDS-0019)
- 25001 – Wash Buffer (10X), 20mL (SDS-0021)
- 308171 – K-Blue Substrate, 20mL (SDS-0067)
- 21015 – Extraction Buffer (5X), 30mL (SDS-0022)
- 21226 – Cortisol Enzyme Conjugate, 150 µL (SDS-0058)
- 21307 – Cortisol Standard, 100 µL (SDS-0045)
- 25150 – Cortisol Antibody-Coated Microplate (no SDS included)

For any questions, please contact Neogen Corporation.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
- Product Name(s): **EIA Buffer**
- Product Part Number(s): **21014, 21328, 25000, 25111, 301276, 301276-B, 301277**

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: Intended for laboratory use only.
- Use advised against: Do not use beyond the expiration date. Do not mix reagents or components of one kit with reagents or components of any other kit. Each kit is designed to work properly as provided.

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 944 Nandino Blvd.
  Lexington, Kentucky 40511
  USA
- Telephone: 859/254-1221 • 800/477-8201 (USA/Canada)
- Email: inform@neogen.com

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

SECTION 2 Hazards identification

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

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

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

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

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures

SECTION 4 First aid measures

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

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

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

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

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

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

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

SECTION 5 Fire-fighting measures

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

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

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

5.4 Hazardous Combustion Products
- May include carbon oxides.

SECTION 6 Accidental release measures

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

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

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

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

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

7.2 Conditions for safe storage, including any incompatibilities
- Store kit at 4°C at all times. Do not freeze.
- Keep container tightly closed when not in use.

7.3 Specific end use(s)
- Intended for laboratory use only.

SECTION 8  Exposure controls/personal protection

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

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

Gloves  Safety             Lab Coat  Glasses

SECTION 9  Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Liquid
- Odor: Odorless
- 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
SECTION 10 Stability and reactivity (continued)
10.2 Chemical stability
   - Considered stable under normal conditions.
10.3 Possibility of hazardous reactions
   - No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid
   - Do not freeze.
10.5 Incompatible materials
   - None known
10.6 Hazardous Decomposition Products
   - Decomposition products may include carbon oxides.

SECTION 11 Toxicological information
11.1 Information on toxicological effects
   - No experimental test data available for the mixture
     - ATEmix = 116, 279 mg/kg (oral)
     - Contact with skin
       May cause redness and irritation in sensitive individuals.
       Based on available data, the classification criteria are not met.
     - Contact with eyes
       May cause redness and irritation in sensitive individuals.
       Based on available data, the classification criteria are not met.
     - Ingestion
       Product is not toxic, but may cause nausea or other gastrointestinal symptoms in sensitive individuals if swallowed.
       Based on available data, the classification criteria are not met.
     - Inhalation
       Not a likely route of exposure. May cause respiratory irritation in sensitive individuals.
       Based on available data, the classification criteria are not met.
   - Carcinogenicity
     No component >0.01% listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
     No component >0.01% found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
     No component >0.01% listed in OSHA standard 1910.1003 Carcinogens.
   - Mutagenicity
     No information available
   - Teratogenicity
     No information available

SECTION 12 Ecological information
12.1 Toxicity
   - This product is not classified as hazardous to the environment under U.S. regulations.
12.2 Persistence and degradability
   - No information available
12.3 Bioaccumulation Potential
   - No information available
12.4 Mobility in soil
   - No information available
12.5 Results of PBT and vPvB assessment
   - Not a PBT according to REACH Annex XIII
   - PBT/vPvB assessment not available
12.6 Other Adverse Effects
   - To the best of our knowledge, the properties of this material have not been fully evaluated.
   - On available data, substance is not harmful to the environment.
SECTION 13  Disposal considerations

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

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

SECTION 14  Transport information

14.1 UN Number
  Not classified as hazardous for transport

14.2 UN Proper Shipping Name
  - Not applicable

14.3 Transport hazard class(es)
  - Not applicable

14.4 Packing group
  - Not applicable

14.5 Environmental hazards
  - Not classified

14.6 Special precautions for user
  - Not classified

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

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

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

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

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

SECTION 15  Regulatory information

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

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information

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

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

SARA 311/312
No SARA Hazards

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

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

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

SECTION 16  Other information

Document Number:  SDS-0019, EIA Buffer
Date of Preparation:  August 9, 2016
Revision:  Rev. 0
Replaces:  New issue

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

1.1 Product identifier
- Product Name(s): **Wash Buffer (10x)**
- Product Part Number(s): 21000, 25001, 301176, 301176-B, 301177

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: Intended for laboratory use only.
- Use advised against: Do not use beyond the expiration date. Do not mix reagents or components of one kit with reagents or components of any other kit. Each kit is designed to work properly as provided.

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 944 Nandino Blvd.
  Lexington, Kentucky 40511
  USA
- Telephone: 859/254-1221 • 800/477-8201 (USA/Canada)
- Email: inform@neogen.com

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

SECTION 2 Hazards identification

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

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

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

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

SECTION 3 Composition/information on ingredients

3.1 Substances
3.2 Mixtures

SECTION 4 First aid measures

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

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

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

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

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

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

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

SECTION 5  Fire-fighting measures

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

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

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

5.4 Hazardous Combustion Products
- None known

SECTION 6  Accidental release measures

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

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

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

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

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

7.2 Conditions for safe storage, including any incompatibilities
- Store kit at 4°C at all times. Do not freeze.
- Keep container tightly closed when not in use.

7.3 Specific end use(s)
- Intended for laboratory use only.

SECTION 8 Exposure controls/personal protection

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

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

SECTION 9 Physical and chemical properties

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

9.2 Other information
- No information available

SECTION 10 Stability and reactivity

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

10.2 Chemical stability
- Considered stable under normal conditions.

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

10.4 Conditions to avoid
- Do not freeze.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- None known

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- ATEmix = 285,714 mg/kg (oral)
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  Product is not toxic, but may cause nausea or other gastrointestinal symptoms if swallowed in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Inhalation
  Not a likely route of exposure. May cause respiratory irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  No evidence of teratogenic effects.

SECTION 12 Ecological information

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

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

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

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

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

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

SECTION 14  Transport information

14.1 UN Number
Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

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

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

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

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

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

SECTION 15  Regulatory information

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

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information

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

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

SARA 311/312
No SARA Hazards

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

California Prop 65
This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

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

SECTION 16  Other information

Document Number:  SDS-0021, Wash Buffer (10X)
Date of Preparation:  August 9, 2015
Revision:  Rev. 0
Replaces:  New issue

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

1.1 Product identifier
- Product Name(s): K-Blue® Substrate
- Product Part Number(s): 308171

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: Intended for laboratory use only.
- Use advised against: Do not use beyond the expiration date.

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 944 Nandino Blvd.
  Lexington, Kentucky 40511
  USA
- Telephone: 859/254-1221 • 800/477-8201 (USA/Canada)
- Email: inform@neogen.com

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

SECTION 2 Hazards identification

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

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

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

SECTION 3 Composition/information on ingredients

3.1 Substances

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

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

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

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

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

SECTION 5  Fire-fighting measures

5.1 Extinguishing media
   - In case of fire: use 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.

5.4 Hazardous Combustion Products
   - None known

SECTION 6  Accidental release measures

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

6.2 Environmental Precautions
   - Do not allow to enter public sewers and watercourses.
   - Avoid releasing to the environment.
SECTION 6  Accidental release measures (continued)
6.3 Methods and material for containment and cleaning up
   - Absorb spillage in inert material and shovel up.
   - Dike large spills as necessary.
   - Place in sealable containers and label them.
   - Ventilate the area and wash spill site after material pick-up is complete.
   - Dispose of contaminated materials and wastes in accordance with local/national/international regulations.
6.4 Reference to other sections
   - See Section 7 for storage. For disposal, see Section 13.

SECTION 7  Handling and storage
7.1 Precautions for safe handling
   - Do not breathe mist/vapors/fumes/spray.
   - Avoid contact with skin and eyes.
   - Do not eat, drink smoke, or apply cosmetics when using this product.
   - Ensure adequate ventilation.
   - Eyewash bottles should be available.
   - Wash hands thoroughly after using this substance.
7.2 Conditions for safe storage, including any incompatibilities
   - Store at temperatures not exceeding 4°C/39°F.
   - Avoid direct exposure to sunlight.
   - Store only in high quality amber colored plastic or glass bottles.
   - Keep away from common metal ions (like iron).
   - Avoid the use of rubber stoppers and bottle caps containing rubber rings.
7.3 Specific end use(s)
   - Intended for laboratory use only.

SECTION 8  Exposure controls/personal protection
8.1 Control parameters
   - This product contains no substances with occupational exposure limit values.
8.2 Exposure controls
   - Eyewash bottles should be available.
   - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
   - Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
   - Wear safety glasses approved to standards for ANSI Z87 or EN 166.
   - Wear suitable protective clothing in accordance with good industrial hygiene and safety practices.

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

9.2 Other information
- No information available

SECTION 10 Stability and reactivity
10.1 Reactivity
- No information available
10.2 Chemical stability
- Considered stable under normal conditions.
10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid
- Avoid direct exposure to sunlight.
- Keep away from heat and sources of ignition.
- Do not freeze.
10.5 Incompatible materials
- Incompatible with some common metal ions (such as iron).
- Avoid the use of rubber stoppers and caps containing rubber rings.
10.6 Hazardous Decomposition Products
- None known

SECTION 11 Toxicological information
11.1 Information on toxicological effects
- No experimental test data available for mixture
- ATEmix = 72,424 mg/kg
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  Product is not toxic, but may cause nausea or other gastrointestinal symptoms in sensitive individuals if swallowed.
  Based on available data, the classification criteria are not met.
- Inhalation
  Not a likely route of exposure. May cause respiratory irritation in sensitive individuals if inhaled.
  Based on available data, the classification criteria are not met.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No information available
- Teratogenicity
  No information available
SECTION 12  Ecological information

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

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

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

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

SECTION 13  Disposal considerations

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

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

SECTION 14  Transport information

14.1 UN Number
- Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

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

14.8 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable
SECTION 14 Transport information (continued)

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

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

SECTION 15 Regulatory information

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

15.2 Chemical Safety Assessment
   - No information available

15.3 United States Regulatory Information

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

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

SARA 311/312
   No SARA Hazards

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

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

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

SECTION 16 Other information

Document Number: SDS-0067, K-Blue Substrate
Date of Preparation: August 9, 2016
Revision: Rev. 0
Replaces: New issue

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

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

1.1 Product identifier
- Product Name(s): Extraction Buffer (5x)
- Product Part Number(s): 21003, 21015

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: Intended for laboratory use only.
- Use advised against: Do not use beyond the expiration date. Do not mix reagents or components of one kit with reagents or components of any other kit. Each kit is designed to work properly as provided.

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 944 Nandino Blvd.
  Lexington, Kentucky 40511
  USA
- Telephone: 859/254-1221 • 800/477-8201 (USA/Canada)
- Email: inform@neogen.com

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

SECTION 2 Hazards identification

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

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

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

SECTION 3 Composition/information on ingredients
3.1 Substances
3.2 Mixtures

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

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

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

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

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

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

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

SECTION 5  Fire-fighting measures

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

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

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

5.4 Hazardous Combustion Products
- None known

SECTION 6  Accidental release measures

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

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

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

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

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

7.2 Conditions for safe storage, including any incompatibilities
- Store kit at 4°C at all times. Do not freeze.
- Keep container tightly closed when not in use.

7.3 Specific end use(s)
- Intended for laboratory use only.

SECTION 8 Exposure controls/personal protection

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

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

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Colorless to faint yellow liquid
- Odor: Odorless
- 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
SECTION 10 Stability and reactivity

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
- Do not freeze.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- None known

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- ATEmix = 33,333 mg/kg (oral)
- Contact with skin
  - May cause redness and irritation in sensitive individuals.
  - Based on available data, the classification criteria are not met.
- Contact with eyes
  - May cause redness and irritation in sensitive individuals.
  - Based on available data, the classification criteria are not met.
- Ingestion
  - Product is not toxic, but may cause nausea or other gastrointestinal symptoms in sensitive individuals if swallowed.
  - Based on available data, the classification criteria are not met.
- Inhalation
  - Not a likely route of exposure. May cause respiratory irritation in sensitive individuals.
  - Based on available data, the classification criteria are not met.
- Carcinogenicity
  - Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  - Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  - Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  - No evidence of mutagenic effects.
- Teratogenicity
  - No evidence of teratogenic effects.

SECTION 12 Ecological information

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

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

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

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

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

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

SECTION 14 Transport information

14.1 UN Number
- Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

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

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

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

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

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

SECTION 15 Regulatory information

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

15.2 Chemical Safety Assessment
   - No information available

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

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

   SARA 311/312
   No SARA Hazards

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

   California Prop 65
   This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

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

SECTION 16  Other information

Document Number:  SDS-0022, Extraction Buffer (5X)
Date of Preparation:  August 9, 2016
Revision:  Rev. 0
Replaces:  New issue

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

1.1 Product identifier
   - Product Name(s): Cortisol Enzyme Conjugate
   - Product Part Number(s): 21226

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Use of the substance/preparation: Intended for laboratory use only.
   - Use advised against: Do not use beyond the expiration date. Do not mix reagents or components of one kit with reagents or components of any other kit. Each kit is designed to work properly as provided.

1.3 Details of the supplier of the safety data sheet
   - Name of Manufacturer: Neogen Corporation
   - Address of Manufacturer: 944 Nandino Blvd.
     Lexington, Kentucky 40511
     USA
   - Telephone: 859/254-1221 • 800/477-8201 (USA/Canada)
   - Email: inform@neogen.com

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

SECTION 2 Hazards identification

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

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

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

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures

SECTION 4 First aid measures

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

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

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

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

SECTION 5 Fire-fighting measures

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

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

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

5.4 Hazardous Combustion Products
- None known

SECTION 6 Accidental release measures

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

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

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

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

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

7.2 Conditions for safe storage, including any incompatibilities
- Store kit at 4°C at all times. Do not freeze.
- Keep container tightly closed when not in use.

7.3 Specific end use(s)
- Intended for laboratory use only.

SECTION 8  Exposure controls/personal protection

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

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

SECTION 9  Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Clear, amber liquid
- Odor: Odorless
- pH: Neutral
- Melting Point/Range: Not applicable
- Boiling Point/Range: 100°C
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Completely soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information
- No information available

SECTION 10  Stability and reactivity

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

10.2 Chemical stability
- Considered stable under normal conditions.

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

10.4 Conditions to avoid
- Do not freeze.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- None known

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
  - \[\text{ATEmix} = 7,143 \text{ mg/kg (oral)}\]
  - Contact with skin
    - May cause redness and irritation in sensitive individuals.
      - Based on available data, the classification criteria are not met.
    - Contact with eyes
      - May cause redness and irritation in sensitive individuals.
      - Based on available data, the classification criteria are not met.
  - Ingestion
    - Product is not toxic, but may cause nausea or other gastrointestinal symptoms in sensitive individuals if swallowed.
      - Based on available data, the classification criteria are not met.
  - Inhalation
    - Not a likely route of exposure. May cause respiratory irritation in sensitive individuals if inhaled.
      - Based on available data, the classification criteria are not met.
  - Carcinogenicity
    - Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
    - Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
    - Not listed in OSHA standard 1910.1003 Carcinogens.
  - Mutagenicity
    - No evidence of mutagenic effects.
  - Teratogenicity
    - No evidence of teratogenic effects.

SECTION 12 Ecological information

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

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

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

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

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

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

SECTION 14  Transport information

14.1 UN Number
Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

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

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

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

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

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

SECTION 15  Regulatory information

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

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information

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

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

SARA 311/312
No SARA Hazards

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

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

SECTION 16  Other information

Document Number:  SDS-0058, Cortisol Enzyme Conjugate
Date of Preparation:  August 9, 2016
Revision:  Rev. 0
Replaces:  New issue

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

1.1 Product identifier
- Product Name(s): Cortisol Standard
- Product Part Number(s): 21307

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: Intended for laboratory use only.
- Use advised against: Do not use beyond the expiration date. Do not mix reagents or components of one kit with reagents or components of any other kit. Each kit is designed to work properly as provided.

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 944 Nandino Blvd.
Lexington, Kentucky 40511
USA
- Telephone: 859/254-1221
- Email: Inform@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)
- Flammable liquid, Cat. 2, H225, Specific target organ toxicity (single exposure), Cat. 1, H370

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Flam liq. 2, H225, STOT-SE 1, H370

Classification (WHMIS 2015 HPR)
- Flammable liquid, Cat. 2, H225, Specific target organ toxicity (single exposure), Cat. 1, H370

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

2.2 Label elements
- Signal Word: Danger
- Symbols: GHS02, GHS08
- Hazard phrases
  Highly flammable liquid and vapor.
  Causes damage to organs.
- Precautionary phrases
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
  Keep container tightly closed.
  Use explosion-proof electrical/ventilating/lighting equipment.
  Use only non-sparking tools.
  Take precautionary measures against static discharge.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  If exposed or concerned: Get medical advice/attention.
  In case of fire: Use water spray, foam, carbon dioxide or dry agent to extinguish.
  Store in a well-ventilated place. Keep cool.
  Dispose of contents/container in accordance with local/regional/national/international regulations.
SECTION 2 Hazards identification (continued)

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

SECTION 3 Composition/information on ingredients

3.1 Substances

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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Concentration</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>H-Statements</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>90-100%</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td>H225, H370</td>
<td>GHS02, GHS08</td>
</tr>
</tbody>
</table>

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.
  In general, this product like any other chemical, should be treated with care, respect, and common sense.
- Contact with skin
  Remove contaminated clothing.
  Wash affected area with plenty of soap and water.
  If skin irritation or rash occurs: Get medical advice/attention.
  Contaminated clothing should be laundered before reuse.
- Contact with eyes
  If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes.
  Irrigate eyes thoroughly while lifting eyelids.
  Remove contact lenses, if present and easy to do. Continue rinsing.
  Seek medical advice/attention if irritation persists.
- Ingestion
  Rinse mouth with water (do not swallow).
  Never make an unconscious person vomit or drink fluids.
  If medical advice is needed, have product container or label at hand.
- Inhalation
  If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  Call a poison center or doctor/physician if you feel unwell.

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

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

SECTION 5 Fire-fighting measures

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

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

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

5.4 Hazardous Combustion Products
- May include carbon oxides.
SECTION 6 Accidental release measures

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

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

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

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

SECTION 7 Handling and storage

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

7.2 Conditions for safe storage, including any incompatibilities
- Store kit at 4°C at all times. Do not freeze.
- Keep container tightly closed when not in use.
- Store in a well-ventilated place.
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

7.3 Specific end use(s)
- Intended for laboratory use only.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Value</th>
<th>Control Parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>TWA 200 ppm,</td>
<td>USA-OSHA Table Z-1 Limits for Air Contaminants - 1910.1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>260 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 200 ppm,</td>
<td>USA-NIOSH Recommended Exposure Limits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>260 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 250 ppm,</td>
<td>USA-NIOSH Recommended Exposure Limits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>325 mg/m³ (skin)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 200 ppm (skin)</td>
<td>USA-ACGIH Threshold Limit Values (TLV)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 250 ppm (skin)</td>
<td>USA-ACGIH Threshold Limit Values (TLV)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>WEL (long term)200 ppm,</td>
<td>EU-EH40/2005 Workplace Exposure Limits (WEL)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>266 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>WEL (short term)250 ppm,</td>
<td>EU-EH40/2005 Workplace Exposure Limits (WEL)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>333 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 8 Exposure controls/personal protection (continued)

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

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Aqueous liquid
- Odor: Alcohol-like
- pH: No information available
- Melting Point/Range: Not applicable
- Boiling Point/Range: No information available
- Flashpoint: 9.7°C/49.5°F
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: 130.3 hPa (97.7 mmHg) @ 20°C
- Vapor Density: 1.11
- Specific Gravity: 0.791 g/mL @ 25°C
- Solubility in water: Miscible with water
- Partition Coefficient (n-Octanol/Water): log POW = -0.77
- Autoignition Temperature: 455°C/851°F @ 1,013 hPa (760 mmHg)
- Viscosity: No information available
- Explosive Properties: Vapors may 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.
- May form explosive vapor/air mixtures.

10.4 Conditions to avoid
- Keep away from heat, sparks, and sources of ignition.
- Do not freeze.

10.5 Incompatible materials
- Strong oxidizers, strong acids, strong alkalis, peroxides.

10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides and formaldehyde.
SECTION 11  Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- ATEmix = 5,618 mg/kg (oral)
- Based on available data, the classification criteria for toxicity are not met.
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Can be absorbed through the skin.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  Causes damage to organs (specific target organ toxicity, single exposure): Target organs include gastrointestinal tract (GI), central nervous system (CNS), liver, kidney, spleen, blood, and eyes (optic nerve).
  May cause drowsiness, dizziness, nausea, and/or other gastrointestinal symptoms if swallowed.
- Inhalation
  May cause damage to organs through prolonged or repeated exposure by inhalation.
- Carcinogenicity
  No component >0.01% listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  No component >0.01% found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  No component >0.01% listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  Evidence of teratogenic effects in test animals.

SECTION 12  Ecological information

12.1 Toxicity
  Methanol
  Toxicity to fish
  LC₅₀ – Pimephales promelas (Fathead minnow) >10,000 mg/L-96h
  Toxicity to daphnia and other aquatic invertebrates
  EC₅₀ – Daphnia magna (Water flea) >10,000 mg/L-24h

12.1 Persistence and degradability
- No information available

12.2 Bioaccumulation Potential
- No information available

12.3 Mobility in soil
- No information available

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

12.5 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.
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

14.1 UN Number
UN1987

14.2 UN Proper Shipping Name
- Alcohols, n.o.s. (Methanol solution)

14.3 Transport hazard class(es)
- Class 3

14.4 Packing group
- PG II

14.5 Environmental hazards
- Not classified

14.6 Special remarks for transport
- 100 µL vial to be shipped under the Excepted Quantity citation

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: Alcohols, n.o.s. (Methanol solution)
- DOT UN No.: 1987
- DOT Hazard Class: 3
- DOT Packing Group: II
- Other: Excepted Quantity citation, <30mL

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Alcohols, n.o.s. (Methanol solution)
- ADR UN No.: 1987
- ADR Hazard Class: 3
- ADR Packing Group: II
- Tunnel Code: D/E

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: ALCOHOLS, N.O.S. (METHANOL SOLUTION)
- IMDG UN No.: 1987
- IMDG Hazard Class: 3
- IMDG Packing Group: II

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Alcohols, n.o.s. (Methanol solution)
- ICAO UN No.: 1987
- ICAO Hazard Class: 3
- ICAO Packing Group: II
- Other: Excepted Quantity citation, <30mL

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

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 following components are subject to reporting levels established by SARA Title III, Section 313: Methanol (CAS No. 67-56-1), Threshold Value, 1%.

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

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

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

State Right-to-Know
- Massachusetts
  Methanol, CAS No. 67-56-1
- New Jersey
  Methanol, CAS No. 67-56-1
- Pennsylvania
  Methanol, CAS No. 67-56-1

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

SECTION 16   Other information

Document Number:  SDS-0045, Cortisol Standard
Date of Preparation:  August 9, 2016
Revision:  Rev. 0
Replaces:  New issue

Text not given with phrase codes where they are used elsewhere in this safety data sheet:  H225: Highly flammable liquid and vapor. H370: Causes damage to organs.

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.