



Kit SDS Cover Sheet

Product Name: **Veratox® for Gliadin R5**

Item No(s): **8510**

This is a 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:

1. Multi-Level Controls
2. Enzyme-HRP Conjugate
3. K-Blue® Advanced TMB Substrate **Substrate change beginning with Lot No. 266894**
4. Red Stop Solution
5. PBS Foil Packets
6. Wash Buffer Concentrate
7. Extraction Additive
8. Antibody-Coated Microwells and Transfer Wells

For further information, please contact your Neogen Corporation Representative.



# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## Gliadin R5 Multi-Level Controls

Revision 0  
Revision date 2019-01-25

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

#### 1.1. Product identifier

Product name	Gliadin R5 Multi-Level Controls
Product code	8510, 8511

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for laboratory use only.

#### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler 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

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).
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### SECTION 2: Hazards identification

#### 2.2. Label elements

Hazard Statements	No Significant Hazard
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### SECTION 3: Composition/information on ingredients

#### Description

No components need to be disclosed according to the applicable regulations.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.

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## 4.1. Description of first aid measures

Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING unless advised to do so by a doctor. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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### 5.2. Special hazards arising from the substance or mixture

	This product is not flammable. Use extinguishing media appropriate to the surrounding fire conditions.
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### 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Ensure adequate ventilation of the working area.
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### 6.2. Environmental precautions

	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water.
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### 6.3. Methods and material for containment and cleaning up

	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not flush into surface water.
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### 6.4. Reference to other sections

	See section 2, 8 & 13 for further information.
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## 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. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area.
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### 7.2. Conditions for safe storage, including any incompatibilities

	Store in correctly labelled containers. Keep container tightly closed.
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### 7.3. Specific end use(s)

	See Section 1.2 for further information.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

# Gliadin R5 Multi-Level Controls


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## 8.1. Control parameters

### Exposure Limit Values

Glycerin (Glycerin mist)	ACGIH TLV TWA: 10 mg/m <sup>3</sup> Notations: - OSHA PEL 8hr TWA mg m3: 15 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
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## 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective clothing.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical resistant gloves.
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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Color</b>	Clear/Colorless
<b>Odor</b>	Odorless/Slight
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability limits</b>	Not applicable.
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	No data available

## Gliadin R5 Multi-Level Controls

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## 9.2. Other information

VOC (Volatile organic compounds)	No data available
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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## 10.4. Conditions to avoid

	Keep away from heat.
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## 10.5. Incompatible materials

	No data available.
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## 10.6. Hazardous decomposition products

	Carbon oxides.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

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

## 11.1.4. Toxicological information

Gliadin R5 Multi-Level Controls	Oral Rat LD50: 13333
Glycerin	Inhalation Rat LC50/1 h: 2570 mgm3 Oral Rat LD50: >12600 mg/kg

## SECTION 12: Ecological information

## 12.1. Toxicity

	No data available
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## 12.2. Persistence and degradability

	No data is available on this product.
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## 12.3. Bioaccumulative potential

No data is available on this product.

## Partition coefficient

**Gliadin R5 Multi-Level Controls** No data available

## 12.4. Mobility in soil

No data is available on this product.

## 12.5. Results of PBT and vPvB assessment

No data is available on this product.

## 12.6. Other adverse effects

Caution - substance not yet fully tested.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

### Disposal methods

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

### Disposal of packaging

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

## 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.

### 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.

## 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.

# Gliadin R5 Multi-Level Controls

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

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:

This material contains no reportable components

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no reportable components.

Rhode Island Right-to-Know Hazardous Substance List:

This material contains no reportable components.

### Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Glycerin (1,2,3-Propanetriol)	Y	N	N	N	N	N	N	N	N

### SECTION 16: Other information

#### Further information

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.

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## Gliadin R5-HRP Conjugate

Revision 0  
Revision date 2019-01-25

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

#### 1.1. Product identifier

Product name	Gliadin R5-HRP Conjugate
Product code	8510, 8511

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for laboratory use only.

#### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler 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

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).
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### SECTION 2: Hazards identification

#### 2.2. Label elements

Hazard Statements	No Significant Hazard
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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures



## Gliadin R5-HRP Conjugate

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## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Sodium periodate		7790-28-5	232-197-6		0 - 0.5%	Ox. Sol. 1: H271; Skin Corr. 1C: H314; Eye Dam. 1: H318; STOT RE 1: H372; Aquatic Acute 1: H400;
Sodium borohydride		16940-66-2	241-004-4			Water-react. 1: H260; Acute Tox. 3: H301; Skin Corr. 1B: H314; Eye Dam. 1: H318; Repr. 1B: H360;
Acetic acid ...% (Acetic acid)	607-002-00-6	64-19-7	200-580-7			Flam. Liq. 3: H226; Skin Corr. 1A: H314;
Sodium azide (as Hydrazoic acid vapor)	011-004-00-7	26628-22-8	247-852-1			Acute Tox. 2: H300; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

## Description

No components need to be disclosed according to the applicable regulations.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING unless advised to do so by a doctor. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

## 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

This product is not flammable. Use extinguishing media appropriate to the surrounding fire conditions.

## 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

Adopt best Manual Handling considerations when handling, carrying and dispensing. Ensure adequate ventilation of the working area.

# Gliadin R5-HRP Conjugate

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## 6.2. Environmental precautions

	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water.
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## 6.3. Methods and material for containment and cleaning up

	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not flush into surface water.
--	---

## 6.4. Reference to other sections

	See section 2, 8 & 13 for further information.
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## 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. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area.
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### 7.2. Conditions for safe storage, including any incompatibilities


	Store in correctly labelled containers. Keep container tightly closed.
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### 7.3. Specific end use(s)

	See Section 1.2 for further information.
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## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective clothing.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical resistant gloves.
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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

## Gliadin R5-HRP Conjugate

Revision 0  
Revision date 2019-01-25

## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Color</b>	Clear/Brown
<b>Odor</b>	Odorless/Slight
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability limits</b>	Not applicable.
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	No data available

## 9.2. Other information

<b>VOC (Volatile organic compounds)</b>	No data available
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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## 10.4. Conditions to avoid

	Keep away from heat.
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## 10.5. Incompatible materials

	No data available.
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## 10.6. Hazardous decomposition products

	Carbon oxides.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Ingestion may cause nausea and vomiting.
<b>Skin corrosion/irritation</b>	May cause irritation to skin.
<b>Serious eye damage/irritation</b>	May cause irritation to eyes.

## Gliadin R5-HRP Conjugate

Revision 0  
Revision date 2019-01-25

## 11.1. Information on toxicological effects

Germ cell mutagenicity	No Significant Hazard.
Carcinogenicity	Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112. Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No Significant Hazard.
STOT-single exposure	No Significant Hazard.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

## 11.1.4. Toxicological information

	No data available
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## SECTION 12: Ecological information

## 12.1. Toxicity

	No data available
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## 12.2. Persistence and degradability

	No data is available on this product.
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## 12.3. Bioaccumulative potential

	No data is available on this product.
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## Partition coefficient

	<b>Gliadin R5-HRP Conjugate</b> No data available
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## 12.4. Mobility in soil

	No data is available on this product.
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## 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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## 12.6. Other adverse effects

	Caution - substance not yet fully tested.
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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of in compliance with all. local and national regulations.
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## Disposal methods

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

## Disposal of packaging

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

## SECTION 14: Transport information

## 14.1. UN number

## Gliadin R5-HRP Conjugate

Revision 0  
Revision date 2019-01-25

## 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.

## 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.

**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:

This material contains no reportable components

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no reportable components.

Rhode Island Right-to-Know Hazardous Substance List:.

This material contains no reportable components.

**SECTION 16: Other information**

## Other information

## Text of Hazard Statements in Section 3

Ox. Sol. 1: H271 - May cause fire or explosion; strong oxidiser.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Eye Dam. 1: H318 - Causes serious eye damage.

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Water-react. 1: H260 - In contact with water releases flammable gases which may ignite spontaneously.

Acute Tox. 3: H301 - Toxic if swallowed.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Repr. 1B: H360 - May damage fertility or the unborn child .

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

# Gliadin R5-HRP Conjugate

Revision 0  
Revision date 2019-01-25

## Other information

EUH032 - Contact with acids liberates very toxic gas.  
Acute Tox. 2: H300 - Fatal if swallowed.  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

## Further information

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.

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# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## K-Blue® Advanced TMB Substrate

Revision 2  
Revision date 2019-01-15

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

#### 1.1. Product identifier

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

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

Description	Substrate Solution.
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#### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler 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
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#### 2.3. Other hazards

Other hazards	No data is available on this product.
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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

## K-Blue® Advanced TMB Substrate

Revision 2  
Revision date 2019-01-15

## 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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## 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)

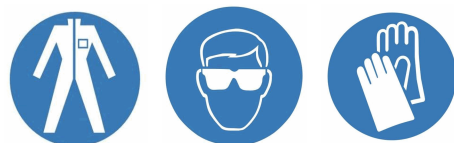
See section 1.2 for further information.

## 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.

Individual protection measures

Wear suitable protective clothing.

Eye / face protection

Use as appropriate: Suitable eye protection.

Skin protection - Hand protection

Use as appropriate: 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

## K-Blue® Advanced TMB Substrate

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## 9.1. Information on basic physical and chemical properties

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

## 9.2. Other information

<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Gas group</b>	No data available
<b>Benzene Content</b>	No data available
<b>Lead content</b>	No data available
<b>VOC (Volatile organic compounds)</b>	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 2  
Revision date 2019-01-15

## 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

	<b>K-Blue® Advanced TMB Substrate</b> 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 2  
Revision date 2019-01-15

## 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:.

8 - Skin protection - Hand protection.

8 - Eye / face protection.

## K-Blue® Advanced TMB Substrate

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## Other information

<b>Text of Hazard Statements in Section 3</b>	Eye Irrit. 2: H319 - Causes serious eye irritation. Ox. Sol. 3: H272 - May intensify fire; oxidiser. 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> <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>
--	--



# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## Red Stop Solution

Revision 1  
Revision date 2018-08-31

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

#### 1.1. Product identifier

Product name	Red Stop Solution
Product code	301474, 301475, 301476, 301471, 301473, 301210, 301XXX.

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

Description	Aqueous Stop Solution.
-------------	------------------------

#### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler 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

#### 2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	No Significant Hazard.
-----------------------------	------------------------

#### 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

# Red Stop Solution

Revision 1  
Revision date 2018-08-31

## 3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Sodium fluoride.		7681-49-4	231-667-8		0 - 0.5%	Acute Tox. 3: H301; Skin Corr. 1C: H314; Eye Irrit. 2: H319; Aquatic Acute 3: H402;

### 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	Seek medical attention.
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 spillage area thoroughly with plenty of water.

# Red Stop Solution

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## 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)

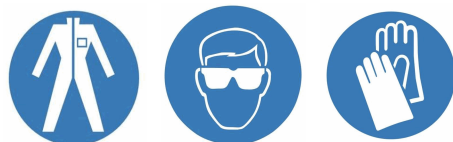
See section 1.2 for further information.

## 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.

Individual protection measures

Wear suitable protective clothing.

Eye / face protection

Wear:.. Approved safety goggles.

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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties



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## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Color</b>	Clear/Red
<b>Odor</b>	Characteristic
<b>Odour threshold</b>	No data available
<b>pH</b>	8.7
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability limits</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Fat Solubility</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Miscible in water

## 9.2. Other information

<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Gas group</b>	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

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	No data available.
-----------------------	--------------------

## Red Stop Solution

Revision 1  
Revision date 2018-08-31

## 11.1. Information on toxicological effects

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.
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.

## SECTION 12: Ecological information

## 12.2. Persistence and degradability

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

## 12.3. Bioaccumulative potential

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

## Partition coefficient

	<b>Red Stop Solution</b> 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.
--	--

## 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

# Red Stop Solution

Revision 1  
Revision date 2018-08-31

## 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

<b>Regulations</b>	<p>Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.</p> <p>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.</p> <p>US State Regulations: New Jersey Right-to-Know Hazardous Substance List: This material contains no listed components.</p> <p>Pennsylvania Right-to-Know Hazardous Substance List: Sodium fluoride: Y, Phosphoric acid: Y.</p>
--------------------	--

### 15.2. Chemical safety assessment

No data is available on this product.

## SECTION 16: Other information

### Other information

<b>Revision</b>	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> <li>1 - Description.</li> <li>1 - Product code.</li> <li>1 - Manufactured By:.</li> <li>1 - Hotline(s):.</li> </ul>
<b>Text of Hazard Statements in Section 3</b>	<p>Acute Tox. 3: H301 - Toxic if swallowed.</p> <p>Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Aquatic Acute 3: H402 - Harmful to aquatic life.</p>

### Further information

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented

# Red Stop Solution

Revision 1  
Revision date 2018-08-31

## Further information

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.

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# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## Phosphate Buffered Saline, Foil Pouch

Revision 0  
Revision date 2018-10-18

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

#### 1.1. Product identifier

Product name	Phosphate Buffered Saline, Foil Pouch
Product code	0114

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC19] Intermediate;
Description	Intended for laboratory use only.

#### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler 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
----------------------------	----------------

#### Further information

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
-------------------	-----------------------

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Potassium chloride		7447-40-7	231-211-8		1 - 10%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;

#### Description

No components need to be disclosed according to the applicable regulations.

# Phosphate Buffered Saline, Foil Pouch

Revision 0  
Revision date 2018-10-18

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	No irritation expected. Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed.
Skin contact	No irritation expected. Rinse immediately with plenty of water.
Ingestion	DO NOT INDUCE VOMITING unless advised to do so by a doctor. Never give anything by mouth to an unconscious person.

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

Inhalation	No irritation expected. Seek medical attention if irritation or symptoms persist.
Eye contact	No irritation expected. Seek medical attention if irritation or symptoms persist.
Skin contact	No irritation expected. 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

	This product is not flammable. Use extinguishing media appropriate to the surrounding fire conditions.
--	--

### 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

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

### 6.2. Environmental precautions

	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water.
--	--

### 6.3. Methods and material for containment and cleaning up

	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not flush into surface 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. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area.
--	---

### 7.2. Conditions for safe storage, including any incompatibilities

	Keep refrigerated. Keep container tightly closed. Keep only in the original container.
--	--

### 7.3. Specific end use(s)


	See Section 1.2 for further information.
--	--

# Phosphate Buffered Saline, Foil Pouch

Revision 0  
Revision date 2018-10-18

## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective clothing.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical resistant gloves.
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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>State</b>	Powder
<b>Color</b>	White
<b>Odor</b>	Odorless/Slight
<b>Odour threshold</b>	No data available
<b>pH</b>	7.4
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Flammability limits</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

### 9.2. Other information

<b>VOC (Volatile organic compounds)</b>	No data available
---	-------------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

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

## Phosphate Buffered Saline, Foil Pouch

Revision 0  
Revision date 2018-10-18

## 10.3. Possibility of hazardous reactions

No Significant Hazard.

## 10.4. Conditions to avoid

Keep away from heat.

## 10.5. Incompatible materials

No data available.

## 10.6. Hazardous decomposition products

Carbon oxides.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

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

## 11.1.2. Mixtures

Caution - substance not yet fully tested.

## 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 is available on this product.

## 12.3. Bioaccumulative potential

No data is available on this product.

## Partition coefficient

Phosphate Buffered Saline, Foil Pouch No data available

## 12.4. Mobility in soil

No data is available on this product.



# Phosphate Buffered Saline, Foil Pouch

Revision 0  
Revision date 2018-10-18

## 12.5. Results of PBT and vPvB assessment

No data is available on this product.

## 12.6. Other adverse effects

Caution - substance not yet fully tested.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

### Disposal methods

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

### Disposal of packaging

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

## 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.

### 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.

## 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:  
This material contains no reportable components

Pennsylvania Right-to-Know Hazardous Substance List:  
This material contains no reportable components.

# Phosphate Buffered Saline, Foil Pouch

Revision 0  
Revision date 2018-10-18

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

Rhode Island Right-to-Know Hazardous Substance List:  
This material contains no reportable components.

## SECTION 16: Other information

### Other information

<b>Text of Hazard Statements in Section 3</b>	<p>Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation.</p>
---	--

### Further information

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.

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# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## Wash Buffer, 25X

Revision 0  
Revision date 2018-10-04

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

#### 1.1. Product identifier

Product name	Wash Buffer, 25X
Product code	24218, 24629

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for laboratory use only.

#### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler 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

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
-------------------	-----------------------

### SECTION 3: Composition/information on ingredients

#### Description

No components need to be disclosed according to the applicable regulations.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation	No irritation expected. Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed.
Skin contact	No irritation expected. Rinse immediately with plenty of water.

# Wash Buffer, 25X

Revision 0  
Revision date 2018-10-04

## 4.1. Description of first aid measures

Ingestion	DO NOT INDUCE VOMITING unless advised to do so by a doctor. Never give anything by mouth to an unconscious person.
-----------	--

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

Inhalation	No irritation expected. Seek medical attention if irritation or symptoms persist.
Eye contact	No irritation expected. Seek medical attention if irritation or symptoms persist.
Skin contact	No irritation expected. 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

	This product is not flammable. Use extinguishing media appropriate to the surrounding fire conditions.
--	--

### 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

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

### 6.2. Environmental precautions

	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water.
--	--

### 6.3. Methods and material for containment and cleaning up

	Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not flush into surface 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. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area.
--	---

### 7.2. Conditions for safe storage, including any incompatibilities

	Keep refrigerated. Keep container tightly closed. Keep only in the original container.
--	--

### 7.3. Specific end use(s)

	See Section 1.2 for further information.
--	--


## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

## Wash Buffer, 25X

Revision 0  
Revision date 2018-10-04

## 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective clothing.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical resistant gloves.
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.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Color</b>	No data available
<b>Odor</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Fat Solubility</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Flash point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	Not applicable.
<b>Flammability limits</b>	Not applicable.
<b>Solubility</b>	Soluble in water

## 9.2. Other information

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

## Wash Buffer, 25X

Revision 0  
Revision date 2018-10-04**SECTION 10: Stability and reactivity****10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No Significant Hazard.

**10.4. Conditions to avoid**

Keep away from heat.

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

Carbon oxides.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

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

**11.1.2. Mixtures**

Caution - substance not yet fully tested.

**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 is available on this product.

**12.3. Bioaccumulative potential**

No data is available on this product.

## Wash Buffer, 25X

Revision 0  
Revision date 2018-10-04

## Partition coefficient

Wash Buffer, 25X No data available

## 12.4. Mobility in soil

No data is available on this product.

## 12.5. Results of PBT and vPvB assessment

No data is available on this product.

## 12.6. Other adverse effects

Caution - substance not yet fully tested.

**SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

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

## Disposal methods

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

## Disposal of packaging

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

**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.

## 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.

**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.

# Wash Buffer, 25X

Revision 0  
Revision date 2018-10-04

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

US State Regulations:  
New Jersey Right-to-Know Hazardous Substance List:  
This material contains no reportable components

Pennsylvania Right-to-Know Hazardous Substance List:  
This material contains no reportable components.

Rhode Island Right-to-Know Hazardous Substance List:  
This material contains no reportable components.

California Prop 65:  
WARNING: Reproductive effects - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16: Other information

### Further information

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# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/6

## Extraction Additive

Revision 0  
Revision date 2018-12-27

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

#### 1.1. Product identifier

Product name	Extraction Additive
CAS No.	68514-61-4
Product code	22178, 22179, 22192, 22195

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for laboratory use only.

#### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler 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

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
-------------------	-----------------------

### SECTION 3: Composition/information on ingredients

#### Description

No components need to be disclosed according to the applicable regulations.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention

# Extraction Additive

Revision 0  
Revision date 2018-12-27

## 4.1. Description of first aid measures

Skin contact	if irritation or symptoms persist.
	Rinse immediately with plenty of water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING unless advised to do so by a doctor. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

## 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

	Use extinguishing media appropriate to the surrounding fire conditions.
--	---

### 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

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

### 6.2. Environmental precautions

	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water.
--	--

### 6.3. Methods and material for containment and cleaning up

	Clean spillage area thoroughly with plenty of water. Do not flush into surface 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. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area.
--	---

### 7.2. Conditions for safe storage, including any incompatibilities

	Store in correctly labelled containers. Keep container tightly closed.
--	--

### 7.3. Specific end use(s)

	See Section 1.2 for further information.
--	--


## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

## Extraction Additive

Revision 0  
Revision date 2018-12-27

## 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective clothing.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical resistant gloves.
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.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State	Powder
Color	White/Off white
Odor	Mild
Odour threshold	No data available
pH	No data available
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
Partition coefficient	No data available
Autoignition temperature	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

## 9.2. Other information

VOC (Volatile organic compounds)	Not applicable.
----------------------------------	-----------------

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

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

## 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

## Extraction Additive

Revision 0  
Revision date 2018-12-27

## 10.3. Possibility of hazardous reactions

No Significant Hazard.

## 10.4. Conditions to avoid

Keep away from heat.

## 10.5. Incompatible materials

No data available.

## 10.6. Hazardous decomposition products

Carbon oxides.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

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

## 11.1.4. Toxicological information

Not applicable.

## SECTION 12: Ecological information

## 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data is available on this product.

## 12.3. Bioaccumulative potential

No data is available on this product.

## Partition coefficient

Extraction Additive No data available

## 12.4. Mobility in soil

No data is available on this product.

## 12.5. Results of PBT and vPvB assessment

No data is available on this product.

# Extraction Additive

Revision 0  
Revision date 2018-12-27

## 12.6. Other adverse effects

Caution - substance not yet fully tested.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

### Disposal methods

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

### Disposal of packaging

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

## 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.

### 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.

## 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:  
This material contains no reportable components

Pennsylvania Right-to-Know Hazardous Substance List:  
This material contains no reportable components.

Rhode Island Right-to-Know Hazardous Substance List:  
This material contains no reportable components.

# Extraction Additive

Revision 0  
Revision date 2018-12-27

## SECTION 16: Other information

### Further information

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