



Kit SDS Cover Sheet

Product Name: **Acetaminophen (RTU) Forensic Kit**

Item No(s): **132415, 132419**

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. EIA Buffer (21014, 30mL) (25111, 200mL)
2. Wash Buffer, 10x (25001, 20mL) (25112, 100mL)
3. Enhanced K-Blue® Substrate (308171, 20mL) (21211, 100mL)
4. Enzyme-HRP Conjugate (21421, 14mL each)
5. Acid Stop Solution (21336, 14mL) (27046, 90mL)
6. Positive Control (750µL each)
7. Negative Control (25008, 750µL each)
8. Antiserum-Coated Plate (27500)

For further information, please contact your Neogen Corporation Representative.



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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EIA Buffer

Revision 0
Revision date 2018-08-01

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

1.1. Product identifier

| | |
|--------------|-----------------------------|
| Product name | EIA Buffer |
| Product code | 21014, 21328, 25000, 25111, |
| Product code | 301276, 301276-B, 301277. |

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 |
|----------------------------|----------------|

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

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Description

| | |
|--|---|
| | No Significant Hazard. 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. |
| Eye contact | Rinse immediately with plenty of water. Contact lenses should be removed. |
| Skin contact | Remove contaminated clothing. Wash off immediately with plenty of soap and water. |
| Ingestion | DO NOT INDUCE VOMITING unless advised to do so by a doctor. |

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 if irritation or symptoms persist. |
| 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. |
|--|---|

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 |
|--|---|

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7.1. Precautions for safe handling

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: Safety glasses.

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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Revision date 2018-08-01

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------|-------------------|
| State | Liquid |
| Color | Clear |
| Odor | Odorless |
| 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 |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Fat Solubility | No data available |
| Partition coefficient | No data available |
| Autoignition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Flammability limits | Not applicable. |
| Solubility | No data available |

9.2. Other information

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

| | |
|--|-------------------------|
| | Do NOT allow to freeze. |
|--|-------------------------|

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

EIA Buffer

Revision 0
Revision date 2018-08-01**SECTION 11: Toxicological information****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 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 | Possible risk of harm to the unborn child. |
| 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. |
|--|--------------------|

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

Partition coefficient

| | |
|--|-------------------------------------|
| | EIA Buffer 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

| | |
|--|--|
| | Do not contaminate water by cleaning of equipment or disposal of wastes. Dispose of in |
|--|--|

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Disposal methods

compliance with all local and national regulations.

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.

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.

California Proposition 65:
Thimerosal (Mercury/Mercury compounds) - reproductive effects.

15.2. Chemical safety assessment

No data is available on this product.

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

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Further information

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.

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.



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Wash Buffer (10X)

Revision 0
Revision date 2018-08-01

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

1.1. Product identifier

| | |
|--------------|---|
| Product name | Wash Buffer (10X) |
| Product code | 25111, 25112, 27038 |
| Product code | 25001, 21000, 301176, 301176-B, 301177. |

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 |
|----------------------------|----------------|

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

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Revision 0
Revision date 2018-08-01

Description

| | |
|--|---|
| | No Significant Hazard. 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. |
| Eye contact | Rinse immediately with plenty of water. Contact lenses should be removed. |
| Skin contact | Remove contaminated clothing. Wash off immediately with plenty of soap and water. |
| Ingestion | DO NOT INDUCE VOMITING unless advised to do so by a doctor. |

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 if irritation or symptoms persist. |
| 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. |
|--|---|

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 |
|--|---|

Wash Buffer (10X)

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7.1. Precautions for safe handling

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: Safety glasses.

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

Wash Buffer (10X)

Revision 0
Revision date 2018-08-01

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------|-------------------|
| State | Liquid |
| Color | Clear/Colorless |
| Odor | Odorless |
| 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 |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Fat Solubility | No data available |
| Partition coefficient | No data available |
| Autoignition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Flammability limits | Not applicable. |
| Solubility | Soluble in water |

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

| | |
|--|-------------------------|
| | Do NOT allow to freeze. |
|--|-------------------------|

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

| | |
|--|---|
| | Will not decompose if stored and used as recommended. |
|--|---|

Wash Buffer (10X)

Revision 0
Revision date 2018-08-01**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

| | |
|-----------------------------------|--|
| Acute toxicity | No Significant Hazard. |
| 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 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 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. |
|--|--------------------|

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

Partition coefficient

| | |
|--|-------------------------------------|
| | Wash Buffer (10X) 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

| | |
|--|---|
| | Do not contaminate water by cleaning of equipment or disposal of wastes. Contact a licensed |
|--|---|

Wash Buffer (10X)

Revision 0
Revision date 2018-08-01

Disposal methods

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

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.

15.2. Chemical safety assessment

No data is available on this product.

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

Wash Buffer (10X)

Revision 0
Revision date 2018-08-01

Further information

use.

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.

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Enhanced K-Blue® Substrate

Revision 4
Revision date 2018-03-03

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

1.1. Product identifier

| | |
|--------------|---|
| Product name | Enhanced K-Blue® Substrate |
| Product code | 308170-W, 308171, 308174-W, 308175, 308176, 308177, 308177-U, 308181, 308187, 308187-L, 308189, 308189-L, 308189-WH-L, 308193, 308194-W, 308194-WL, 308199, 308202, 308203, 308203-L, 308205, 308205-W, 308206, 308208, 308209, 308212, 308240, 308240-W, 308243, 308249-L, 308249-WL, 308251, 308254, 308254-W, 308254-WL, 308255-W, 308256, 308256-L, 308257, 308258, 308261, 308XXX, 21211, 27026, 27027, 27028, 501822, 501823, 0107. |

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; [PROC1] Use in closed process, no likelihood of exposure; |
| Description | Substrate Solution. |

1.3. Details of the supplier of the safety data sheet

| | |
|-----------|---|
| Company | Neogen Corporation |
| Address | 620 Lesher 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

2.1. Classification of the substance or mixture

| | |
|-----------------------------|------------------|
| 2.1.2. Classification - GHS | Repr. 1B: H360D; |
|-----------------------------|------------------|

2.2. Label elements

| | |
|-------------------|---|
| Hazard pictograms |  |
| Signal Word | Danger |

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2.2. Label elements

| | |
|--|---|
| Hazard Statement | Repr. 1B: H360D - May damage the unborn child. |
| Precautionary Statement: Prevention | P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection. |
| Precautionary Statement: Response | P308+P313 - IF exposed or concerned: Get medical advice/attention. |
| Precautionary Statement: Storage | P405 - Store locked up. |
| Precautionary Statement: Disposal | P501 - Dispose of contents/container to an approved waste disposal plant (in accordance with local/regional/national/international regulation). |

2.3. Other hazards

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

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 |
|------------------------|--------------|----------|-----------|---------------------------|--------------|--|
| N-Methyl-2-pyrrolidone | 606-021-00-7 | 872-50-4 | 212-828-1 | | 1 - 5% | Repr. 1B: H360D; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; |
| Urea hydrogen peroxide | | 124-43-6 | 204-701-4 | | 0 - 0.5% | 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

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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. |
|--|---|

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. |

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8.2. Exposure controls

| | |
|--------------------------------|---|
| 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 | Liquid |
| Color | Clear/Light blue |
| Odor | No data available |
| 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 |
| Fat Solubility | No data available |
| Partition coefficient | No data available |
| Autoignition temperature | No data available |
| Viscosity | No data available |
| Oxidising properties | No data available |
| Solubility | No data available |

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

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

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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

| | |
|-----------------------------------|---|
| 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. |
| Reproductive toxicity | May damage the unborn child. |
| 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

Enhanced K-Blue® Substrate No data available

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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

14.6. Special precautions for user

No data available.

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

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:

N-Methyl-2-pyrrolidone: Y

Pennsylvania Right-to-Know Hazardous Substance List:

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

15.2. Chemical safety assessment

No data is available on this product.

Inventories

| Ingredient | TSCA | MA | SARA313 | CALPROP65 | CWA307 | CAA112 | CWA311 | SARA302 | SARA304 |
|---|------|----|---------|-----------|--------|--------|--------|---------|---------|
| N-Methyl-2-pyrrolidone (2-Pyrrolidinone, 1-methyl-) | Y | N | Y 1.0 | Y | N | N | N | N | N |

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:
1 - Product code.

Text of Hazard Statements in Section 3

Skin Irrit. 2: H315 - Causes skin irritation.
Eye Irrit. 2: H319 - Causes serious eye irritation.
STOT SE 3: H335 - May cause respiratory irritation.
Repr. 1B: H360D - May damage the unborn child.
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

Enhanced K-Blue® Substrate

Revision 4
Revision date 2018-03-03

Further information

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SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/7

Acetaminophen-HRP Conjugate

Revision 0
Revision date 2018-09-04

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

1.1. Product identifier

| | |
|--------------|-----------------------------|
| Product name | Acetaminophen-HRP Conjugate |
| Product code | 21421 |

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 |
|----------------------------|----------------|

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

Description

Acetaminophen-HRP Conjugate

Revision 0
Revision date 2018-09-04

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. |
| Eye contact | Rinse immediately with plenty of water. Contact lenses should be removed. |
| Skin contact | Remove contaminated clothing. Wash off immediately with plenty of soap and water. |
| Ingestion | DO NOT INDUCE VOMITING unless advised to do so by a doctor. |

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 if irritation or symptoms persist. |
| 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.

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.

Acetaminophen-HRP Conjugate

Revision 0
Revision date 2018-09-04

7.2. Conditions for safe storage, including any incompatibilities

Keep refrigerated. Keep containers tightly closed. 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

No data is available on this product.

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: Safety glasses.

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

Acetaminophen-HRP Conjugate

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Revision date 2018-09-04

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------|--------------------|
| State | Liquid |
| Color | Clear/Light yellow |
| Odor | Odorless |
| 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 | Not applicable. |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Fat Solubility | No data available |
| Partition coefficient | No data available |
| Autoignition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Solubility | Soluble in water |

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

| | |
|--|----------------------|
| | Keep away from heat. |
|--|----------------------|

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

Acetaminophen-HRP Conjugate

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SECTION 11: Toxicological information

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 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 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. |
|--|--------------------|

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

Partition coefficient

| | |
|--|---|
| | Acetaminophen-HRP Conjugate 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. |
|--|--|

Acetaminophen-HRP Conjugate

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Revision date 2018-09-04

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

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

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

Text of Hazard Statements in Section 3

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

Acetaminophen-HRP Conjugate

Revision 0
Revision date 2018-09-04

Other information

STOT SE 1: H370 - Causes damage to organs .

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

SDS according to OSHA CFR 1910.1200

Section 1: Identification

Product identifier:

Acid Stop Solution

Recommended use of the chemical and restrictions on use:

For laboratory use.

Details of the supplier of the safety data sheet:

Neogen Corporation

944 Nandino Blvd

Lexington, KY 40511

Phone: +1 859/254-1221 / 800.477.8201 (USA/Canada)

USA

Responsible for SDS (e-mail): inform@neogen.com**Emergency phone number:**

Poison Emergency call 1-800-222-1222 (anywhere in the US)

CHEMTREC Tel. No.US: 1-800-424-9300

Section 2: Hazard(s) identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Classification of the chemical:

None

Signal word

None

Pictogram(s)/Symbol(s)

None

Contain

None

Hazard statement(s)

None

Precautionary statement(s)**Other hazards not otherwise classified:**

May be corrosive to metals.

Ingredients with unknown acute toxicity:

None.

Section 3: Composition/Information on Ingredients

Identity of chemical ingredients: >95% aqueous solution containing the following declarable substance:

| % w/w | Substance name | CAS | Note |
|-------|----------------|-----------|------|
| <5 | Sulphuric acid | 7664-93-9 | 1 |

1) Substance on TSCA inventory.

Section 4: First-Aid Measures

Description of necessary measures:

Inhalation: Move the affected person to fresh air. Keep at rest. If needed: get medical attention.

Skin contact: Remove contaminated clothing and flush skin thoroughly with water. If irritation persists: seek medical advice.

Eye contact: Immediately flush with water or physiological salt water for at least 15 minutes, holding eye lids open, remember to remove contact lenses, if any. If irritation persists: seek medical advice. Continue to flush on the way.

Ingestion: Rinse mouth and drink plenty of water. Do not induce vomiting. If needed: get medical attention.

Section 4: First-Aid Measures (continued)

Most important symptoms/effects, acute and delayed:

May cause irritation of skin, eyes, lungs and gastrointestinal tract.

Indication of immediate medical attention and special treatment needed:

Show this safety data sheet to a physician or emergency ward.

Section 5: Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media:

Not relevant for this product. Use extinguishers appropriate for surrounding materials.

Specific hazards arising from the chemical:

Not flammable. Do not breathe smoke fumes. In case of strong heat or fire, the product may form hazardous decomposition products.

Special protective equipment and precautions for fire-fighters:

Wear self-contained breathing apparatus when generation of smoke is vigorous.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Use personal protective equipment - see section 8. Avoid further spreading. Ventilate area of leak or spill.

Methods and materials for containment and cleaning up:

Absorb and place in a suitable container. Flush with water and ventilate spill area. Further handling of spillage - see section 13.

Section 7: Handling and Storage

Precautions for safe handling:

Provide adequate ventilation in working area. Avoid contact with skin, eyes and clothing. Prevent formation of aerosols. Do not breathe aerosols/vapors. Wash hands and contaminated areas with water and soap after end of work.

Always pour the mixture into the water when diluting – never the other way around!

Conditions for safe storage, including any incompatibilities:

In tightly closed container of same material as the original container.

Section 8: Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PEL):

| Substance | OSHA PEL | Cal/OSHA PEL | NIOSH REL | ACGIH TLV |
|----------------|---------------------|---|---------------------|-------------------------------|
| Sulphuric acid | 1 mg/m ³ | 0.1 mg/m ³ (ST) 3 mg/m ³ | 1 mg/m ³ | 0.2 mg/m ³ (Thor.) |

ST = Short Term Exposure Limit

Thor. = Thoracic fraction

National Institute for Occupational Safety and Health

= NIOSH

Recommended Exposure Limit = REL

American Conference of Governmental Industrial Hygienists

= ACGIH

Threshold Limit Value = TLV

Other exposure limit used or recommended: None known.

Appropriate engineering controls (e.g., use local exhaust ventilation, or use only in an enclosed system):

Work in fume cupboard or use process ventilation.

Individual protection measures, such as personal protective equipment (PPE):

PPE are necessary during foreseeable use conditions.

Eye/face protection

Wear tight fitting face screen/ safety glasses with side shields, when risk of contact.

Skin/hand protection

Wear protective gloves of e.g. nitrile rubber (>0.3 mm). Breakthrough time: approx. 3 hours.

Respiratory protection

Not required when sufficient ventilation is provided.

Section 9: Physical and Chemical Properties

| | |
|--|------------------|
| Appearance (physical state, color, etc.): | Clear liquid |
| Odor: | Not determined |
| Odor threshold: | Not determined |
| pH: | <1 |
| Melting point/freezing point (°C): | Not determined |
| Initial boiling point and boiling range (°C): | Not determined |
| Flash point (°C): | Not determined |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not relevant |
| Upper/lower flammability or explosive limits (vol.-%): | Not relevant |
| Vapor pressure: | Not determined |
| Vapor density: | Not determined |
| Relative density: | >1 |
| Solubility(ies): | Soluble in water |
| Partition coefficient: n-octanol/water: | Not determined |
| Auto-ignition temperature (°C): | Not determined |
| Decomposition temperature (°C): | Not determined |
| Viscosity: | Not determined |

Section 10: Stability and Reactivity

Reactivity:

May be corrosive to metals.

Chemical stability:

Stable under normal conditions – see section 7. Not combustible.

Possibility of hazardous reactions:

None known.

Conditions to avoid:

Do not expose to any form of heat (e.g. solar radiation).

Incompatible materials:

Reacts with metals (under the formation of hydrogen).

Hazardous decomposition products:

Thermal decomposition may form hazardous decomposition products.

Section 11: Toxicological Information

Information on toxicological (health) effects:**Likely routes of exposure:**

Skin, lungs and gastro intestinal tract.

Symptoms:**Inhalation:**

Inhalation of spray mists may cause irritation to mucous membranes and upper respiratory tract. Exposure to high airborne concentrations, may cause irritation, dizziness and sickness.

Skin Contact:

May cause slight irritation to skin with symptoms like redness.

Eye Contact:

May cause irritation to eyes with symptoms like redness and pain.

Ingestion:

May cause irritation to mucous membranes and the digestive system. Ingestion of larger amounts may cause sickness and vomiting.

Delayed (chronic) effects:

Prolonged exposure to even low concentrations atomized sulfuric acid can cause lung damage, corneal inflammation and damage to teeth and airways.

Section 11: Toxicological Information (continued)

Toxicity data:

Acute Toxicity

| Hazard class | Data (Sulphuric acid) | Test | Data source |
|-----------------------|--|---------|-------------|
| Acute toxicity: | | | |
| Inhalation | LC ₅₀ (rat) = 510 mg/m ³ | No info | IUCLID |
| Dermal | No available or applicable data | - | - |
| Oral | LD ₅₀ (rat) = 2140 mg/kg | No info | IUCLID |
| Corrosion/irritation: | Skin and eye corrosion, rabbit | No info | IUCLID |
| Sensitization: | No available or applicable data | - | - |

Mutagenic toxicity

No mutagen effects (AMES, IUCLID).

The chemical structure does not indicate any teratogenic effects.

Reproductive toxicity

No effect on fertility (mouse, oral, 8400 mg/kg (IUCLID)).

The chemical structure does not indicate any reproduction toxic effects.

Carcinogenic toxicity

Exposure to strong inorganic mists containing sulfuric acid is carcinogenic for humans (Group 1, IARC)

Specific Target Organ Toxicity

STOT assessment single dos toxicity:

Based on available information an organ specific toxicity is not expected for this mixture.

Section 12: Ecological Information

Ecotoxicity:

| Aquatic | Data (Sulphuric acid) | Test (Media) | Data source |
|-------------|---|---------------|-------------|
| Fish | LC ₅₀ (Lepomis macrochirus, 96h) = 42 mg/l | No data (FW) | ECOTOX |
| Crustaceans | EC ₅₀ (Daphnia magna, 48h) = 42.5 mg/l | No data (FW) | ECOTOX |
| Algae | EC ₅₀ (Desmodesmus sub. 72h) = >100 mg/l | OECD 201 (FW) | ECHA |

Persistence and degradability

Sulphuric acid is an inorganic compound. Methods for the determination of the biological degradation is not applicable to inorganic substances.

Bioaccumulative potential

No available or applicable data.

Mobility in soil

Sulphuric acid: K_{oc} < 3 - High mobility in soil.

Other adverse effects

Emissions of larger quantities can alter the pH in water environment and upset the balance of ecosystems.

Section 13: Disposal Considerations

Disposal considerations

Dispose of contents/container in accordance with applicable local/regional/national regulations.

Incinerate and dispose of waste product in a permitted waste incineration facility/ industrial waste facility.

The product is not considered to be hazardous waste.

Section 14: Transport Information

Not regulated as dangerous goods according to US DOT (Title 49).

UN-no.: None.

UN proper shipping name: None.

Hazard Class: None.

Packing Group: None.

IMDG: None.

IATA: None

Section 15: Regulatory Information

US Federal Regulations

NATIONAL INVENTORY STATUS - U.S. Inventory (TSCA): Sulphuric acid is listed on TSCA.

SARA Title III (Superfund Amendments and Reauthorization Act)

SARA Title III Sect. 302 Extremely Hazardous Substances (40 CFR 355): Sulphuric acid is listed.

SARA Title III Sect. 311/312 Extremely Hazardous Categories (40 CFR 370.21): None

Immediate Hazard: No

STATE REGULATIONS:

Proposition 65: Sulphuric acid is listed as “Strong inorganic acid mists containing sulfuric acid”.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Section 16: Other Information

Abbreviations:

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

EC₅₀ = Effect Concentration 50%

LC₅₀ = Lethal Concentration 50%

LD₅₀ = Lethal Dose 50%

ACGIH = American Conference of Governmental Industrial Hygienists

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

NFPA = National Fire Protection Association

OSHA = Occupational Safety and Health Administration

AIHA = American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

ECHA = European Chemical Agency

NIOSH = National Institute for Occupational Safety and Health

STEL = Short-term exposure limits

HCIS = Hazardous Chemical Information System

Literature:

ECHA: REACH registration dossier from ECHA's website.

IUCLID: International Uniform Chemical Database Information.

EPA ECOTOX = The US Environmental Protection Agency's database on ecotoxicological effects for chemicals.

Other information:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Disclaimer:

The information contained herein based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

The SDS is prepared based on the information available to Altos a/s August 2018.

Changes since the previous edition:

Not relevant (first edition).

Prepared by: Altos a/s – Tonsbakken 16-18 – DK-2740 Skovlunde - Phone +45 - 38 34 77 98 / AP - Quality control: PW



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Acetaminophen Positive Control

Revision 0
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|--------------|--------------------------------|
| Product name | Acetaminophen Positive Control |
| Product code | 750 uL |

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 Leshner 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

| | |
|------------------|---|
| 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

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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 |
|------------------------|-----------|----------|--------|---------------------------|--------------|--|
| Acetaminophen solution | | 103-90-2 | | | 0 - 0.5% | Flam. Liq. 2: H225; Acute Tox. 3: H301+H311+H331; STOT SE 1: H370; |

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. Contact lenses should be removed. |
| Skin contact | Remove contaminated clothing. Wash off immediately with plenty of soap and water. |
| Ingestion | DO NOT INDUCE VOMITING unless advised to do so by a doctor. |

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 if irritation or symptoms persist. |
| 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

Acetaminophen Positive Control

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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 refrigerated. Keep containers tightly closed. 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: Safety glasses.

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

| | |
|---------------------------------|-------------------|
| State | Liquid |
| Color | Clear/Colorless |
| 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 |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Fat Solubility | No data available |
| Partition coefficient | No data available |
| Autoignition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Flammability limits | Not applicable. |
| Solubility | No data available |

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

| | |
|--|----------------------|
| | Keep away from heat. |
|--|----------------------|

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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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 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 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

| | |
|--|---|
| | Acetaminophen Positive Control 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. |
|--|--|

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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:

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 listed components.

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

Text of Hazard Statements in Section 3

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

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Other information

STOT SE 1: H370 - Causes damage to organs .

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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Negative Controls - Forensic Kits

Revision 0
Revision date 2018-09-04

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

1.1. Product identifier

| | |
|--------------|-----------------------------------|
| Product name | Negative Controls - Forensic Kits |
| Product code | 25008 |

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 |
|----------------------------|----------------|

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 |
|-------------------|-----------------------|

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. |
|------------|---|

Negative Controls - Forensic Kits

Revision 0
Revision date 2018-09-04

4.1. Description of first aid measures

| | |
|--------------|--|
| 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. |
|--|--|


SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

Negative Controls - Forensic Kits

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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

| | |
|---------------------------------|-------------------|
| State | Aqueous solution |
| Color | Clear/Colorless |
| Odor | Odorless |
| 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 |
| Flammability limits | Not applicable. |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Autoignition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Solubility | No data available |

9.2. Other information

| | |
|---|-------------------|
| VOC (Volatile organic compounds) | No data available |
|---|-------------------|

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

Negative Controls - Forensic Kits

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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

No data available.

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

More than 90% biodegradable.

12.3. Bioaccumulative potential

No data is available on this product.

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

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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.

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SECTION 16: Other information

Further information

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