

Part Number: DR206

Veratox for Lincomycin

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

For any questions please contact Neogen Corporation.

The following Safety Data Sheets are included in this file:

Veratox for Lincomycin

Stop Buffer

SEB Veratox 200X Sample Extraction Buffer

SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY INFORMATION

1.1 Product identifier

Product name : Veratox 200X Sample Extraction
Buffer in DR209

Part number : DR209 SEB

1.2 Relevant identified uses of the substance or mixture

For use with Veratox ELISA Test Kits

Application of the substance / the preparation : *In vitro*

1.3 Details of the supplier of the safety data sheet

Company : Neogen Corporation
620 Leshar Place
Lansing, MI 48912

Emergency Telephone : 1-517-372-9200

Technical Telephone : 1-800-234-5333

Fax : 1-517-372-0108

Email address : foodsafety@neogen.com

Website : www.neogen.com

1.4 Emergency telephone number:

Emergency phone number: For incidents with hazardous and/or dangerous materials such as accidents, spills, leaks, fire or exposure call CHEMTREC: USA/Canada: 1-800-424-9300, Customer number (CNN) 669057.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-US classification in accordance with 29 CFR 1910 (OSHA HCS)

Met. Corr.: (Category 1), (H290)

Acute Toxicity (Oral): 4 (H302)

Skin Corr.: 1B (H314)

Eye Dam.: 1 (H318)

Specific Target Organ Toxicity, Single Exposure (STOT SE): 3 (H335):

Respiratory tract irritation.

See section 2.2 for full H-statements

2.2 GHS Label Elements, including precautionary statements

Pictogram



Signal word (GHS-US)	Danger
Hazard statements (GHS-US): H314 + H318	Causes severe skin burns and serious eye damage.
H290	May be corrosive to metals.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.
Precautionary statements (GHS-US):	
P234	Keep only in original container.
P260	Do not breathe mist, vapors, spray.
P264	Wash exposed skin thoroughly after handling.
P280	Wear protective gloves, eye protection, protective clothing, face protection.
P301+P330+P331	If swallowed: rinse mouth. Do not induce vomiting.
P303+P361+P353	If on skin (or hair): rinse skin with water/shower.
P304+P340	If inhaled: remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center or doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant steel container with resistant liner.
P501	Dispose of contents/container to comply with local, state and federal regulations.

2.3 Other hazards

Hazards not contributing to the classification: None.

2.4 Unknown acute toxicity (GHS US)

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:

CAS#	Chemical Name	Percent (w/w)	GHS-US classification
7732-18-5	Water	90%-99.5	Not classified
7647-01-0	Hydrochloride	0.5%-10%	Acute Toxicity (Oral): 4 (H302) Skin Corr.: 1B (H314) Eye Dam.: 1 (H318) STOT SE: 3 (H335)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

If inhalation: Remove to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Immediately call a poison center or doctor/physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do and continue rinsing. Consult a physician.

If swallowed: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important know symptoms and effects are described in the labeling (see section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas.

For personal protection see Section 8.

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8: Exposure controls and personal protection and section 13: disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapor and mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Container which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

OSHA Occupational Exposure limits: 5 ppm or 7mg/m³

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industry hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye Protection

Eye glasses with side protection.

Skin Protection

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Hand Protection

Use protective Nitrile gloves that provides comprehensive protection. Adhere to manufacturer listed break through times.

Respiratory protection

Not needed for normal use.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Molecular mass (HCl)	36.46 g/mol
Color	Colorless
Odor	Odorless
Odor threshold	No data available
pH	0
Relative evaporation rate (butylacetate=1):	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	110°C (230°F)
Flash point	Not applicable
Self-ignition temperature	Does not ignited
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	23 hPa (17mmHg) at 20°C (68°F)
Relative vapor density at 20 °C	No data available
Relative density	No data available
Solubility	Completely miscible. Soluble in water. Soluble in ethanol. Soluble in methanol.
Log Pow	No data available
Log Kow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Not explosive
Oxidizing properties	None
Explosive limits	No data available

9.2 Other safety information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition generates Corrosive vapors.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reacts violently with some bases. Releases of heat.

10.4 Conditions to avoid

Direct sunlight; extremely high or low temperatures.

10.5 Incompatible materials

Metals, cyanides and strong bases.

SECTION 10: STABILITY AND REACTIVITY (continued)

10.6 Hazardous decomposition products

Thermal decomposition generates corrosive vapors. In the event of fire see Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Absorbed through dermal contact, eye contact, inhalation and ingestion.

Toxicity

May cause damage to the following organs: upper respiratory tract, skin, eyes.
May affect the liver and sensory organs. May affect behavior, the cardiovascular system, and urinary system.

Ingestion

Causes irritation and possible burns of the respiratory tract and mucous membranes.
May be harmful if swallowed. Causes irritation with vomiting, nausea, diarrhea, pain.
May cause burning of the gastrointestinal tract. Can cause nausea and vomiting.

Skin

Causes severe skin irritation and burns. May be absorbed through skin in harmful amounts.

Eyes

Causes severe eye irritation and burns. May cause irritation of the conjunctiva or blindness.

Carcinogenicity

IARC: Classified 3. Not classifiable as to its carcinogenicity to humans.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Additional Information

Ingestion of large amounts may cause: local irritation. Avoid release to the environment.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not established

12.2 Persistence and degradability

Not established.

12.3 Bioaccumulative potential

Not established

12.4 Mobility in soil

May be harmful to plant growth, blooming and fruit formation.

SECTION 12: ECOLOGICAL INFORMATION (continued)

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

May be harmful to aquatic organisms due to shift of the pH

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations.
Avoid release to the environment.

Contaminated packaging

Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

DOT (US)/ IMDG/ IATA/ADR/RID

UN number: 1789 Class 8 Packing group: III



DOT Special Provisions (49 CFR 172.102)

Must be packed with absorbent material in a tightly closed metal non-metal lined receptacle.

SECTION 15: REGULATION INFORMATION

SARA 302 Components

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

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313

	CAS-No.	Revision Date
Hydrochloric acid	7647-01-0	1993-04-24

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right to Know Components

	CAS-No.	Revision Date
Hydrochloric acid	7647-01-0	1993-04-24

SECTION 15: REGULATION INFORMATION (continued)

Pennsylvania Right to Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Hydrochloric acid	7647-01-0	1993-04-24

New Jersey Right to Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Hydrochloric acid	7647-01-0	1993-04-24

California Prop. 65 Components

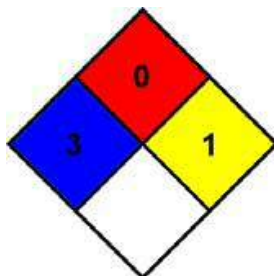
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3

Eye Dam.	Serious eye damage
Met. Corr.	Corrosive to metals
Skin Corr.	Skin Corrosion
STOT SE	Specific target organ toxicity – single exposure

NFPA Health Hazard



NFPA health hazard	3: Short exposure could cause serious temporary or residual injury even though prompt medical attention was given
NFPA fire hazard	0: Materials that will not burn
NFPA reactivity	1: Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

HMIS III Rating

Health	3: Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	0: Minimal Hazard
Physical	1: Slight Hazard
Personal Protection	C

SECTION 16: OTHER INFORMATION (continued)

DISCLAIMER

For Research use only. Not for Drug, Clinical Diagnostics or other uses.

Date of Preparation: May 2016

Revision: Rev. 0

Replaces: New issue

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

SECTION 1 – IDENTIFICATION OF PRODUCT AND COMPANY INFORMATION

1.1 Product identifier

Product name: : Veratox for Lincomycin

Catalog number : DR206

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

No further relevant information available.

Application of the product / the preparation : *In vitro*

1.3 Details of the supplier of the safety data sheet

Company : Neogen Corporation
620 Leshar Place
Lansing, MI 48912

Emergency Telephone : 1-517-372-9200

Technical Telephone : 1-800-234-5333

Fax : 1-517-372-0108

Email address : foodsafety@neogen.com

Website : www.neogen.com

1.4 Emergency telephone number:

Emergency phone number: For incidents with hazardous and/or dangerous materials such as accidents, spills, leaks, fire or exposure call CHEMTREC: USA/Canada: 1-800-424-9300, Customer number (CNN) 669057.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-US classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Toxicity (Category 4, Oral), H302

Eye Damage (Category 1), H318

Metal Corrosion (Category 1), H290

Skin Corrosion (Category 1B), H314

Specific Target Organ Toxicity, Single Exposure (STOT, SE) (Category 3), H335

Aquatic Acute toxicity (Category 3), H402

2.2 GHS Label Elements, including precautionary statements

Pictogram



Signal word (GHS-US)
Hazard statements (GHS-US): H314

Danger
Causes severe skin burns and eye damage.

H402

Harmful to aquatic life.

Precautionary statements (GHS-US):

P260

Do not breathe mist, vapors, spray.

P264

Wash exposed skin thoroughly after handling.

P280

Wear protective gloves, eye protection, protective clothing, face protection.

P301+P330+P331

If swallowed: rinse mouth. Do not induce vomiting.

P303+P361+P353

If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340

If inhaled: remove person to fresh air and keep comfortable for breathing.

P305+P351+P338

If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a poison center or doctor.

P363

Wash contaminated clothing before reuse.

P405

Store locked up.

P501

Dispose of contents/container to comply with local, state and federal regulations.

2.3 Other hazards

Hazards not contributing to the classification: None.

2.4 Unknown acute toxicity (GHS US)

No data available.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#	SARA 313
Lincomycin Ab-coated Plate	NONE	NO
Lincomycin Standards	NONE	NO
Lincomycin-HRP Conjugate	NONE	NO
200X Sample Extraction Buffer	7647-01-0	YES
20X Wash Solution	NONE	NO
Stop Buffer	7647-01-0	YES
TMB Substrate	NONE	NO
Sample Balance Buffer	NONE	NO
10X Lincomycin Dilution Buffer	NONE	NO

Refer to component MSDS for additional information

SECTION 4 – FIRST AID MEASURES

Oral Exposure

If swallowed, wash out mouth with water. Call a physician.

Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 5 minutes.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 10 minutes. Call a physician.

Refer to component MSDS for additional information

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point	N/A
Auto Ignition	N/A
Flammability	N/A
Extinguishing media	Suitable media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or Appropriate Foam

Refer to component MSDS for additional information

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up

Wash spill site with soap solution. Flush spill area with copious amounts of water. Place in appropriate container. Avoid raising dust.

Refer to component MSDS for additional information

SECTION 7 – HANDLING AND STORAGE

Handling

The Stop Buffer contains 0.75 N HCl. When handling these reagents use particular care to avoid contact with eyes and skin and to avoid inhalation of vapor or mist. No other components pose a significant risk.

SECTION 7 – HANDLING AND STORAGE (continued)

Storage

Store at 2-8°C. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Refer to component MSDS for additional information

SECTION 8 – EXPOSURE CONTROLS/PPE

Personal Protective Equipment

Wear chemical-resistant gloves, safety goggles, other protective clothing.

Refer to component MSDS for additional information

SECTION 9 – PHYSICAL/CHEMICAL PROPERTIES

pH	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Auto ignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

SECTION 10 – STABILITY AND REACTIVITY

Stability : Stable
Hazardous Exothermic Reactions : Will not occur.

Refer to component MSDS for additional information

SECTION 11 – TOXICOLOGICAL INFORMATION

Refer to component MSDS

SECTION 12 – ECOLOGICAL INFORMATION

Refer to component MSDS

SECTION 13 – DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation

Small amounts may be washed down the drain with excess water. Observe all federal, state, and local environmental regulations.

Refer to component MSDS for additional information

SECTION 14 – TRANSPORT INFORMATION

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

SECTION 15 – REGULATORY INFORMATION

United States Regulatory Information

SARA Listed: no

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL : No

NDSL : No

Refer to component MSDS for additional information

SECTION 16 – OTHER INFORMATION

Kit Components	Part number	Safety Information
Stop Solution	10002032	Acute Toxicity: 4 (Oral), H302 Skin Corr. :1B, H314 Eye Dam: 1, H318 Specific Target Organ Toxicity, Single Exposure: 3, H335

SECTION 16 – OTHER INFORMATION (continued)

200X Sample Extraction Buffer	1206001	Acute Toxicity: 4 (Oral), H302 Skin Corr. :1B, H314 Eye Dam: 1, H318 Specific Target Organ Toxicity, Single Exposure: 3, H335
Lincomycin Ab-Coated Plate	N/A	Non-Hazardous
Lincomycin Standards	N/A	Non-Hazardous
Lincomycin-HRP Conjugate	N/A	Non-Hazardous
20X Wash Solution	1000202	Non-Hazardous
TMB Substrate	1000204	Non-Hazardous
Sample Balance Buffer	1206002	Non-Hazardous
10X Lincomycin Dilution Buffer	N/A	Non-Hazardous

DISCLAIMER

For Research use only. Not for Drug, Clinical Diagnostics or other uses.

Date of Preparation: May 2016

Revision: Rev. 0

Replaces: New issue

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

SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY INFORMATION

1.1 Product identifier

Product name : Stop Buffer

Part number : N/A

1.2 Relevant identified uses of the substance or mixture

For use with Veratox kits

Application of the substance / the preparation : *In vitro*

1.3 Details of the supplier of the safety data sheet

Company : Neogen Corporation
620 Leshar Place
Lansing, MI 48912

Emergency Telephone : 1-517-372-9200

Technical Telephone : 1-800-234-5333

Fax : 1-517-372-0108

Email address : foodsafety@neogen.com

Website : www.neogen.com

1.4 Emergency telephone number:

Emergency phone number: For incidents with hazardous and/or dangerous materials such as accidents, spills, leaks, fire or exposure call CHEMTREC: USA/Canada: 1-800-424-9300, Customer number (CNN) 669057.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-US classification in accordance with 29 CFR 1910 (OSHA HCS)

Met. Corr.: (Category 1), H290

Acute Toxicity (Oral): 4 (H302)

Skin Corr.: 1B (H314)

Eye Dam.: 1 (H318)

Specific Target Organ Toxicity, Single Exposure (STOT SE): 3 (H335):

Respiratory tract irritation.

See section 2.2 for full H-statements

SECTION 2: HAZARDS IDENTIFICATION (continued)

2.2 GHS Label Elements, including precautionary statements

Pictogram



Signal word (GHS-US)	Warning
Hazard statements (GHS-US): H314 + H318	Causes severe skin burns and serious eye damage
H290	May be corrosive to metals
H335	May cause respiratory irritation
H402	Harmful to aquatic life
Precautionary statements (GHS-US):	
P234	Keep only in original container
P260	Do not breathe mist, vapors, spray
P264	Wash exposed skin thoroughly after handling
P280	Wear protective gloves, eye protection, protective clothing, face protection
P301+P330+P331	If swallowed: rinse mouth. Do not induce vomiting
P303+P361+P353	If on skin (or hair): rinse skin with water/shower
P304+P340	If inhaled: remove person to fresh air and keep comfortable for breathing
P305+P351+P338	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center or doctor
P363	Wash contaminated clothing before reuse
P390	Absorb spillage to prevent material damage
P406	Store in corrosive resistant steel container with resistant liner
P501	Dispose of contents/container to comply with local, state and federal regulations.

2.3 Other hazards

Hazards not contributing to the classification: None.

2.4 Unknown acute toxicity (GHS US)

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:

CAS#	Chemical Name	Percent (w/w)	GHS-US classification
7732-18-5	Water	97.26	Not classified
7647-01-0		2.73	Acute Toxicity (Oral): 4 (H302) Skin Corr.: 1B (H314) Eye Dam.: 1 (H318) STOT SE: 3 (H335)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

If inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Immediately call a poison center or doctor/physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do and continue rinsing. Consult a physician.

If swallowed: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important know symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8: Exposure controls and personal protection and section 13: disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapor and mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Container which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

OSHA Occupational Exposure limits: 5 ppm or 7mg/m³

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industry hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye Protection

Eye glasses with side protection.

Skin Protection

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Hand Protection

Use protective Nitrile gloves that provides comprehensive protection. Adhere to manufacturer listed break through times.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION **(continued)**

Respiratory protection
Not needed for normal use.

Control of environmental exposure
Do not let product enter drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Molecular mass (HCl)	36.46 g/mol
Color	Colorless
Odor	Odorless
Odor threshold	No data available
pH	0
Relative evaporation rate (butylacetate=1):	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	110°C (230°F)
Flash point	Not applicable
Self-ignition temperature	Does not ignited
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	23 hPa (17mmHg) at 20°C (68°F)
Relative vapor density at 20 °C	No data available
Relative density	No data available
Solubility	Completely miscible. Soluble in water. Soluble in ethanol. Soluble in methanol.
Log Pow	No data available
Log Kow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Not explosive
Oxidizing properties	None
Explosive limits	No data available

9.2 Other safety information
No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Thermal decomposition generates Corrosive vapors.

SECTION 10: STABILITY AND REACTIVITY (continued)

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reacts violently with some bases. Releases of heat.

10.4 Conditions to avoid

Direct sunlight; extremely high or low temperatures.

10.5 Incompatible materials

Metals, cyanides and strong bases.

10.6 Hazardous decomposition products

Thermal decomposition generates corrosive vapors. In the event of fire see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Absorbed through dermal contact, eye contact, inhalation and ingestion.

Toxicity

May cause damage to the following organs: upper respiratory tract, skin, eyes. May affect the liver and sensory organs. May affect behavior, the cardiovascular system, and urinary system

Ingestion

Causes irritation and possible burns of the respiratory tract and mucous membranes. May be harmful if swallowed. Causes irritation with vomiting, nausea, diarrhea, pain. May cause burning of the gastrointestinal tract. Can cause nausea and vomiting.

Skin

Causes severe skin irritation and burns. May be absorbed through skin in harmful amounts.

Eyes

Causes severe eye irritation and burns. May cause irritation of the conjunctiva or blindness

Carcinogenicity

IARC: Classified 3. Not classifiable as to its carcinogenicity to humans.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Additional Information

Ingestion of large amounts may cause: local irritation. Avoid release to the environment.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not established

12.2 Persistence and degradability

Not established.

12.3 Bioaccumulative potential

Not established

12.4 Mobility in soil

May be harmful to plant growth, blooming and fruit formation.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

May be harmful to aquatic organisms due to shift of the pH

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations.
Avoid release to the environment.

Contaminated packaging

Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

DOT (US)/ IMDG/ IATA/ADR/RID

UN number: 1789 Class 8 Packing group: III



DOT Special Provisions (49 CFR 172.102)

Must be packed with absorbent material in a tightly closed metal non-metal lined receptacle.

SECTION 15: REGULATION INFORMATION

SARA 302 Components

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

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313

	CAS-No.	Revision Date
Hydrochloric acid	7647-01-0	1993-04-24

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right to Know Components

	CAS-No.	Revision Date
Hydrochloric acid	7647-01-0	1993-04-24

Pennsylvania Right to Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Hydrochloric acid	7647-01-0	1993-04-24

New Jersey Right to Know Components

	CAS-No	Revision Date
Water	7732-18-5	
Hydrochloric acid	7647-01-0	1993-04-24

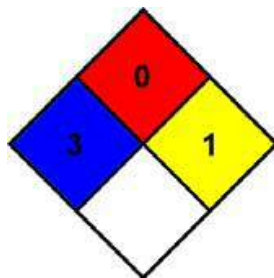
California Prop. 65 Components

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

SECTION 16: OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3

Eye Dam.	Serious eye damage
Met. Corr.	Corrosive to metals
Skin Corr.	Skin Corrosion
STOT SE	Specific target organ toxicity – single exposure

SECTION 16: OTHER INFORMATION (continued)**NFPA Health Hazard**

NFPA health hazard	3: Short exposure could cause serious temporary or residual injury even though prompt medical attention was given
NFPA fire hazard	0: Materials that will not burn
NFPA reactivity	1: Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

HMIS III Rating

Health	3: Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	0: Minimal Hazard
Physical	1: Slight Hazard
Personal Protection	C

DISCLAIMER

For Research use only. Not for Drug, Clinical Diagnostics or other uses.

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