according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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# **1** Identification · Product identifier · Trade name: Calcium Hardness Buffer · Product code: NCCA1119-Q Recommended use and restriction on use · Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. • Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Nashville Chemical 7001 Westbelt Drive, Nashville, TN 37209 (615) 350-7070 · Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification · Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. <sup>•</sup> Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: GHS05 · Signal word: Danger · Hazard statements: H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. · Precautionary statements: Keep only in original container. P234 P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling. (Cont'd. on page 2)

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### Trade name: Calcium Hardness Buffer

Dooo	(Cont'd. of page
P280	Wear protective gloves/protective clothing/eye protection.
P301+P330+P	331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wi water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.

• Other hazards There are no other hazards not otherwise classified that have been identified.

# **3** Composition/information on ingredients

### · Chemical characterization: Mixtures

· Components:

· · · · · · · · · · · · · · · · · ·	
7732-18-5 Water	60-80%
1310-73-2 Sodium hydroxide	20-40%
谷 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
Additional information	

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

# 4 First-aid measures Description of first aid measures · After inhalation: Supply fresh air; consult doctor in case of complaints. • After skin contact: Immediately remove any clothing soiled by the product. Immediately rinse with water. Seek immediate help for blistering or open wounds. If skin irritation continues, consult a doctor. · After eye contact: Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Strong caustic effect on skin and mucous membranes. Danger of severe eye injury. · Danger:

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(Cont'd. of page 2)

Danger of gastric perforation.

Causes serious eye damage.

 $\cdot$  Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

# **5** Fire-fighting measures

# <sup>·</sup> Extinguishing media

# • Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents: None.

· Special hazards arising from the substance or mixture No relevant information available.

# Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

# 6 Accidental release measures

### <sup>•</sup> Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

# **Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

### <sup>·</sup> Handling

### Precautions for safe handling:

Avoid contact with the eyes and skin.

Open and handle receptacle with care.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

· Information about protection against explosions and fires: No special measures required.

<sup>•</sup> Conditions for safe storage, including any incompatibilities

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<ul> <li>Requirements to be met by storerooms and receptacles:</li> <li>Store only in the original receptacle: glass or ceramic.</li> <li>Unsuitable material for receptacle: steel.</li> <li>Store only conditions in well sealed receptacles.</li> <li>Information about storage in one common storage facility:</li> <li>Store away from foodstuffs.</li> <li>Do not store together with acids.</li> <li>Specific end use(s) No relevant information available.</li> </ul> 8 Exposure controls/personal protection 8 Exposure controls/personal protection 9 Control parameters 9 Components with limit values that require monitoring at the workplace: 11 The following constituent is the only constituent of the product which has a PEL, TLV or othe recommended exposure limit. 1310-732 Sodium hydroxide PEL (USA) 12 Long-term value: 2 mg/m <sup>3</sup> 12 L(USA) Ceiling limit value: 2 mg/m <sup>3</sup> 12 L(VGanda) Ceiling limit value: 2 mg/m <sup>3</sup> 12 L(Canada) Ceiling limit value: 2 mg/m <sup>3</sup> 12 KVC (Canada) Ceiling limit value: 2 mg/m <sup>3</sup> 13 CV (Canada) Ceiling limit value: 2 mg/m <sup>3</sup> 14 MPE (Mexico) Ceiling limit value: 2 mg/m <sup>3</sup> 15 Consult of the protective and hygienic measures: The usual precautionary measures for handling chemicate should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid controls with adde. Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Laminated flim gloves. Nitrike rubber, NBR Fluorocarbon rubber (Viton) Natural rubber, NR Neoprene gloves But/i rubber, NBR Fluorocarbon rubber (Viton) Natural rubber, NR Neoprene gloves But/i rubber, NB	rade name: Calc	ium Hardness Buffer	
8 Exposure controls/personal protection         • Control parameters         • Components with limit values that require monitoring at the workplace:         The following constituent is the only constituent of the product which has a PEL, TLV or othe recommended exposure limit.         1310-73-2 Sodium hydroxide         PEL (USA)       Long-term value: 2 mg/m³         REL (USA)       Ceiling limit value: 2 mg/m³         EL (Canada)       Ceiling limit value: 2 mg/m³         EV (Canada)       Ceiling limit value: 2 mg/m³         LMPE (Mexico)       Ceiling limit value: 2 mg/m³         EV (Canada)       Ceiling limit value: 2 mg/m³         LMPE (Mexico)       Ceiling limit value: 2 mg/m³         • Keep away from foodstuffs, beverages and feed.       Immediately remove all solied and contaminated clothing.         Wash hands before breaks and at the end of work.       Avoid contact with the eyes and skin.         • Branting equipment: Not required under normal conditions of use.       • Protection of hands:         • Workering equipment: Not required under normal conditions of use.       • Protective gloves.         Nitrile rubber, NBR       Fluorocarbon rubber (Viton)         Natural rubber, NBR       Fluorocarbon rubber (Viton)         Natural rubber, NBR       NBR         Fluorocarbon rubber (Viton)       Natural rubber, NBR         Natu	Store only in the Unsuitable mate Unsuitable mate Unsuitable mate Store in cool, dry Information abo Store away from Do not store tog	original receptacle. rial for receptacle: glass or ceramic. rial for receptacle: aluminium. rial for receptacle: steel. y conditions in well sealed receptacles. <b>Dut storage in one common storage facility:</b> foodstuffs. ether with acids.	(Cont'd. of page 3)
Control parameters         Components with limit values that require monitoring at the workplace:         The following constituent is the only constituent of the product which has a PEL, TLV or othe recommended exposure limit.         1310-73-2 Sodium hydroxide         PEL (USA)       Long-term value: 2 mg/m³         REL (USA)       Ceiling limit value: 2 mg/m³         EV (USA)       Ceiling limit value: 2 mg/m³         EV (Canada)       Ceiling limit value: 2 mg/m³         LMPE (Mexico)       Ceiling limit value: 2 mg/m³         EXposure controls       General protective and hygienic measures:         The usual precautionary measures for handling chemicals should be followed.         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Avoid contact with the eyes and skin.         Engineering controls:         Protective gloves         Protective gloves         The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.         Material of gloves.         Nitrie rubber, NBR         Fluorocarbon rubber (Viton)         Natural rubber, BR         Not suitable are gloves made of the following materials: PVA gloves	· Specific end ι	use(s) No relevant information available.	
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REL (USA)       Ceiling limit value: 2 mg/m³         TLV (USA)       Ceiling limit value: 2 mg/m³         EL (Canada)       Ceiling limit value: 2 mg/m³         EV (Canada)       Ceiling limit value: 2 mg/m³         LMPE (Mexico)       Ceiling limit value: 2 mg/m³         CMPE (Mexico)       Ceiling limit value: 2 mg/m³         *       Exposure controls         General protective and hygienic measures:       The usual precautionary measures for handling chemicals should be followed.         Keep away from foodstuffs, beverages and feed.       Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.       Avoid contact with the eyes and skin.         Engineering controls:       Provide adequate ventilation.         Breathing equipment: Not required under normal conditions of use.       Protection of hands:         Immit and gloves       Enaminated film gloves.         Laminated film gloves.       Nitrile rubber, NBR         Fluorocarbon rubber (Viton)       Natural rubber, NR         Neoprene gloves       Butyl rubber, BR         Not suitable are gloves made of the following materials: PVA gloves	The following or recommended e	constituent is the only constituent of the product which has a xposure limit.	PEL, TLV or other
TLV (USA)       Ceiling limit value: 2 mg/m³         EL (Canada)       Ceiling limit value: 2 mg/m³         EV (Canada)       Ceiling limit value: 2 mg/m³         LMPE (Mexico)       Ceiling limit value: 2 mg/m³         *       Exposure controls         General protective and hygienic measures:       The usual precautionary measures for handling chemicals should be followed.         Keep away from foodstuffs, beverages and feed.       Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.       Avoid contact with the eyes and skin.         * Engineering controls: Provide adequate ventilation.       Breathing equipment: Not required under normal conditions of use.         * Protection of hands:       Immediatel of gloves         Laminated film gloves.       Nitrile rubber, NBR         Fluorocarbon rubber (Viton)       Natural rubber, NR         Neoprene gloves       Butyl rubber, BR         Nutrile rubber, RR       Neoprene gloves         Butyl rubber, BR       Not suitable are gloves made of the following materials: PVA gloves	PEL (USA)	Long-term value: 2 mg/m <sup>3</sup>	
EL (Canada)       Ceiling limit value: 2 mg/m³         EV (Canada)       Ceiling limit value: 2 mg/m³         LMPE (Mexico)       Ceiling limit value: 2 mg/m³         *       Exposure controls         General protective and hygienic measures:       The usual precautionary measures for handling chemicals should be followed.         Keep away from foodstuffs, beverages and feed.       Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.       Avoid contact with the eyes and skin.         * Engineering controls: Provide adequate ventilation.       Breathing equipment: Not required under normal conditions of use.         * Protection of hands:       Immediately removes.         Wash hands before breaks.       Not required under normal conditions of use.         * Protection of hands:       Immediately removes.         Wash rule uber, NBR       Immediately removes.         Nitrile rubber, NBR       Fluorocarbon rubber (Viton)         Natural rubber, NR       Record gloves         Butyl rubber, RR       Neoprene gloves         Butyl rubber, BR       Not suitable are gloves made of the following materials: PVA gloves	REL (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>	
EV (Canada) LMPE (Mexico)       Ceiling limit value: 2 mg/m³ Ceiling limit value: 2 mg/m³         * Exposure controls       General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.         * Engineering controls: Provide adequate ventilation.         Breathing equipment: Not required under normal conditions of use.         • Protection of hands:         Image: Second	TLV (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>	
LMPE (Mexico)       Ceiling limit value: 2 mg/m³         Exposure controls       General protective and hygienic measures:         The usual precautionary measures for handling chemicals should be followed.         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Avoid contact with the eyes and skin.         Engineering controls:         Protection of hands:         Image: Provide adequate ventilation.         Breathing equipment: Not required under normal conditions of use.         Protection of hands:         Image: Protective gloves         The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.         Material of gloves.         Nitrile rubber, NBR         Fluorocarbon rubber (Viton)         Natural rubber, NR         Neoprene gloves         Butyl rubber, BR         Not suitable are gloves made of the following materials: PVA gloves	EL (Canada)	Ceiling limit value: 2 mg/m <sup>3</sup>	
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<ul> <li>General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.</li> <li>Engineering controls: Provide adequate ventilation.</li> <li>Breathing equipment: Not required under normal conditions of use.</li> <li>Protection of hands:</li> <li>Protective gloves</li> <li>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</li> <li>Material of gloves Laminated film gloves. Nitrile rubber, NBR Fluorocarbon rubber (Viton) Natural rubber, NR Neoprene gloves Butyl rubber, BR</li> <li>Not suitable are gloves made of the following materials: PVA gloves</li> </ul>	LMPE (Mexico)	Ceiling limit value: 2 mg/m³	
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • Material of gloves Laminated film gloves. Nitrile rubber, NBR Fluorocarbon rubber (Viton) Natural rubber, NR Neoprene gloves Butyl rubber, BR • Not suitable are gloves made of the following materials: PVA gloves	General protect The usual preca Keep away from Immediately rem Wash hands bet Avoid contact wi Engineering co Breathing equi	tive and hygienic measures: utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed. hove all soiled and contaminated clothing. fore breaks and at the end of work. th the eyes and skin. ntrols: Provide adequate ventilation. pment: Not required under normal conditions of use.	
Material of gloves         Laminated film gloves.         Nitrile rubber, NBR         Fluorocarbon rubber (Viton)         Natural rubber, NR         Neoprene gloves         Butyl rubber, BR         Not suitable are gloves made of the following materials: PVA gloves	Protecti	ve gloves	
Not suitable are gloves made of the following materials: PVA gloves	• Material of glov Laminated film g Nitrile rubber, Ni Fluorocarbon rul Natural rubber, N Neoprene gloves	ves Iloves. 3R bber (Viton) NR s	/ the preparation.
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· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Alkaline resistant protective clothing

Limitation and supervision of exposure into the environment

No relevant information available.

· Risk management measures No relevant information available.

9 Physical and chemical prope	rties	
· Information on basic physical ar	nd chemical properties	
Form:	Liquid	
Color:	Colorless	
· Odor:	Characteristic	
Odor threshold:	Not determined.	
· pH-value at 20 °C (68 °F):	>13	
• Melting point/Melting range:	Not determined.	
· Boiling point/Boiling range:	>100 °C (>212 °F)	
· Flash point:	The product is not flammable.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
· Oxidizing properties:	Not determined.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	1.2-1.3	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
		(Cont'd. on page

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Other information

No relevant information available.

# **10 Stability and reactivity**

· Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

<sup>•</sup> Possibility of hazardous reactions

Strong exothermic reaction with acids.

Corrosive action on metals.

Attacks materials containing glass and silicate.

Conditions to avoid Avoid acids.

· Incompatible materials Strong acids

· Hazardous decomposition products No relevant information available.

# **11 Toxicological information**

# <sup>·</sup> Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification: None.

• Primary irritant effect:

• On the skin: Strong caustic effect on skin and mucous membranes.

• On the eye: Strong caustic effect.

• Sensitization: Based on available data, the classification criteria are not met.

### IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

### • NTP (National Toxicology Program):

None of the ingredients are listed.

### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

• **STOT-single exposure:** Based on available data, the classification criteria are not met.

 $\cdot$  STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

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# **12 Ecological information**

### <sup>·</sup> Toxicity

· Aquatic toxicity No relevant information available.

- Persistence and degradability No relevant information available.
- · **Bioaccumulative potential:** No relevant information available.
- Mobility in soil: No relevant information available.

# Additional ecological information

### · General notes:

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

• Other adverse effects No relevant information available.

# **13 Disposal considerations**

# <sup>·</sup> Waste treatment methods

### · Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

### <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	UN1824	
UN proper shipping name		
DOT, IATA	Sodium hydroxide solution	
ADR/RID/ADN, IMDG	SODIUM HYDROXIDE SOLUTION	
Transport hazard class(es)		
DOT		
Constant of the second		
Class	8	
Label	8	

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· ADR/RID/ADN	
Class	8 (C5)
·Label	8
· IMDG, IATA	
· Class	8
· Label	8
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	II
<ul> <li>Environmental hazards</li> <li>Marine pollutant:</li> </ul>	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	80
• EMS Number:	F-A,S-B Alkalis
· Segregation groups	
<ul> <li>Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code</li> </ul>	f Not applicable.

# **15 Regulatory information**

<sup>•</sup> Safety, health and environmental regulations/legislation specific for the substance or mixture

· United States (USA)

· SARA

• Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

• TSCA (Toxic Substances Control Act)

1310-73-2 Sodium hydroxide

7732-18-5 Water

# · Proposition 65 (California)

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Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
IARC (International Agency for Research on Cancer):	
None of the ingredients are listed.	
Canadian Domestic Substances List (DSL):	
None of the ingredients are listed.	

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### • Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902

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Website: www.chemtelinc.com