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

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| 1 Identification  |  |  |
|---|--|--|
| · Product identifier  |  |  |
| <ul> <li>Trade name: <u>Sulfuric Acid 2N</u></li> <li>Product code: DUBP409250</li> </ul>   |  |  |
| <ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>  |  |  |
| <ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier:<br/>AquaPhoenix Scientific, Inc.<br/>860 Gitts Run Road<br/>Hanover, PA 17331 USA<br/>Tel +1 (717)632-1291<br/>Toll-Free: (866)632-1291<br/>info@aquaphoenixsci.com</li> <li>Distributor:<br/>Dubois Chemicals Inc.<br/>3630 East Kemper Rd,<br/>Cincinnati, OH 45241<br/>(800) 438-2647</li> </ul> |  |  |
| • Emergency telephone number:<br>ChemTel Inc.<br>(800)255-3924 (North America)<br>+1 (813)248-0585 (International)  |  |  |
| 2 Hazard(s) identification  |  |  |
| <ul> <li>Classification of the substance or mixture</li> <li>Met. Corr.1 H290 May be corrosive to metals.</li> <li>Skin Irrit. 2 H315 Causes skin irritation.</li> <li>Eye Irrit. 2A H319 Causes serious eye irritation.</li> </ul>   |  |  |
| <ul> <li>Label elements</li> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms:</li> </ul>  |  |  |
| GHS05   |  |  |
| <ul> <li>Signal word: Warning</li> <li>Hazard statements:<br/>H290 May be corrosive to metals.<br/>H315 Causes skin irritation.<br/>H319 Causes serious eye irritation.</li> <li>Precautionary statements:</li> </ul>   |  |  |

| i recautional y statements. |                                  |  |  |  |
|-----------------------------|----------------------------------|--|--|--|
| P234                        | Keep only in original container. |  |  |  |
| P264                        | Wash thoroughly after handling.  |  |  |  |

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>85%

9.8-15%

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|  | (Cont'd. of page 1)  |  |
|--|--|--|
| P280   | Wear protective gloves and eye protection.   |  |
| P302+P352  | If on skin: Wash with plenty of water.   |  |
| P305+P351+P3   | 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if |  |
|  | present and easy to do. Continue rinsing.  |  |
| P332+P313  | If skin irritation occurs: Get medical advice/attention.                                   |  |
| P362+P364  | Take off contaminated clothing and wash it before reuse.                                   |  |
| P337+P313  | If eye irritation persists: Get medical advice/attention.                                  |  |
| P390   | Absorb spillage to prevent material damage.  |  |
| P406   | Store in corrosive resistant container with a resistant inner liner.                       |  |
| • 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

7664-93-9 Sulfuric acid

Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318

#### • 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.

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. If symptoms persist, 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:

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Acidosis

Causes skin and eye irritation.

- · Indication of any immediate medical attention and special treatment needed:
- No relevant information available.

### 5 Fire-fighting measures

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### • Extinguishing media

Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents: No relevant information available.

• Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

<sup>•</sup> Advice for firefighters

### Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

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

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

Use limestone to neutralize and/or absorb spill.

Clean the affected area carefully; suitable cleaners are: Water

Dispose of the collected material according to regulations.

**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 splashes or spray in enclosed areas.

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

Open and handle receptacle with care.

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

Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

Store only in the original receptacle.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

· Information about storage in one common storage facility:

Store away from foodstuffs.

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Do not store together with alkalis (caustic solutions). Store away from metals.

Store away from oxidizing agents.

• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No relevant information available.

### 8 Exposure controls/personal protection

### <sup>·</sup> 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 other recommended exposure limit.

#### 7664-93-9 Sulfuric acid

| PEL (USA)     | Long-term value: 1 mg/m <sup>3</sup>                 |
|---------------|--|
| REL (USA)     | Long-term value: 1 mg/m³                             |
| TLV (USA)     | Long-term value: 0.2* mg/m³<br>*as thoracic fraction |
| EL (Canada)   | Long-term value: 0.2 mg/m³<br>ACGIH A2; IARC 1       |
| EV (Canada)   | Long-term value: 0.2 mg/m³                           |
| LMPE (Mexico) | Long-term value: 0.2* mg/m³<br>A2;*fracción torácica |

### 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:** For large spills, respiratory protection may be advisable.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves
 Neoprene gloves
 Butyl rubber, BR
 Fluorocarbon rubber (Viton)
 Nitrile rubber, NBR
 Laminated film gloves.

 Eye protection:

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Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. • **Body protection:** Acid 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 properties                                 |   |  |
|--|---|--|
| <sup>·</sup> Information on basic physical and chemical properties |   |  |
| Appearance:  |   |  |
| Form:  | Liquid  |  |
| Color:   | Clear   |  |
| · Odor:  | Not determined.                               |  |
| · Odor threshold:  | Not determined.                               |  |
| · pH-value:  | Not determined.                               |  |
| <ul> <li>Melting point/Melting range:</li> </ul>                   | Not determined.                               |  |
| <ul> <li>Boiling point/Boiling range:</li> </ul>                   | 105-110 °C (221-166 °F)                       |  |
| · Flash point:   | The product is not flammable.                 |  |
| · Flammability (solid, gaseous):                                   | Not applicable.                               |  |
| • Auto-ignition temperature:                                       | Not determined.                               |  |
| <sup>·</sup> 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 at 20 °C (68 °F):                                 | 23 hPa (17.3 mm Hg)                           |  |
| · Density:   |   |  |
| Relative density at 20 °C (68 °F):                                 | 1.05-1.15                                     |  |
| Vapor density:   | Not determined.                               |  |
| Evaporation rate:  | Not determined.                               |  |
| · Solubility in / Miscibility with                                 |   |  |
| Water:   | Fully miscible.                               |  |
| · Partition coefficient (n-octanol/water): Not determined.         |   |  |
| · Viscosity  |   |  |
| Dynamic:   | Not determined.                               |  |
| Kinematic:   | Not determined.                               |  |
| <sup>·</sup> Other information                                     | No relevant information available.            |  |

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## 10 Stability and reactivity

### <sup>•</sup> Reactivity:

Corrosive action on metals.

Toxic fumes may be released if heated above the decomposition point.

• 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

Toxic fumes may be released if heated above the decomposition point.

Reacts with certain metals.

Reacts with alkali (lyes).

Reacts with oxidizing agents.

Conditions to avoid Excessive heat.

Incompatible materials

Metals. Alkalis

Strong oxidizers such as perchlorates, bromates, and nitrates; hydrofluoric acid.

### Hazardous decomposition products

Sulfur oxides (SOx) Sulfur dioxide

## 11 Toxicological information

· 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: Irritant to skin and mucous membranes.
- · On the eye: Causes serious eye irritation.
- 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):

7664-93-9 Sulfuric acid

### · 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.

 $\cdot$  Carcinogenicity: Based on available data, the classification criteria are not met.

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

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

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

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

### 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.

- <sup>•</sup> Additional ecological information
- · General notes:

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

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

Other adverse effects No relevant information available.

### **13 Disposal considerations**

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

### · Recommendation:

Dilute concentrate with water and neutralize afterwards with suitable material (lime or chalk). The formed salts are inert and pose little hazard.

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.

### · Uncleaned packagings

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

| Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid   |
|--|
| CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O<br>(SULPHURIC ACID) |
| Corrosive liquid, acidic, inorganic, n.o.s. (Sulphu acid)    |
|  |
|  |
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|  |

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| Class       8         Label       8         ADR/RID/ADN         Image: Class       8 (C1)         Label       8         Class       8 (C1)         Label       8         IMDG, IATA         Image: Class       8         Class       8         Class       8         Class       8         Packing group       8         ODT, ADR/RID/ADN, IMDG, IATA       III         Environmental hazards       No         Special precautions for user       Warning: Corrosive substances         Hazard identification number (Kemler code):       80         FAS.S.B       Segregation groups         Acids       F-A,S-B         Segregation groups       Acids         Transport in bulk according to Annex II of       MARPOL73/78 and the IBC Code         Not applicable.       Not applicable.         Totansport in bulk according to substances):       Not applicable.         Section 302 (extremely hazardous substances):       Not applicable.         Safety, health and environmental regulations/legislation specific for the substance or mixture       Section 302 (extremely hazardous substances):         None of the ingredients are listed.       Section 313 (Specific toxic   | Trade name: Sulfuric Acid 2N  |                     |  |  |
|--|---|---------------------|--|--|
| Label       8         ADR/RID/ADN         Image: Class       8 (C1)         Label       8         IMDG, IATA         Image: Class       8 (C1)         Label       8         Class       8         - Class       8         - IMDG, IATA       8         Image: Class       8         - Segregation groups       Acids         - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         - Intitute       9   |   | (Cont'd. of page 7) |  |  |
| ADR/RID/ADN  |   |                     |  |  |
| Label       8         IMDG, IATA       IMDG, IATA         IMDG, IATA       III         Image: Construct of the state |   |                     |  |  |
| Label       8         IMDG, IATA       IMDG, IATA         IMDG, IATA       III         Image: Construct of the state |   |                     |  |  |
| IMDG, IATA         Vertice         Class       8         · Label       8         · Packing group       DOT, ADR/RID/ADN, IMDG, IATA         · DOT, ADR/RID/ADN, IMDG, IATA       III         · Environmental hazards       No         · Special precautions for user       Warning: Corrosive substances         · Hazard identification number (Kemler code):       80         · EMS Number:       PA,S-B         · Segregation groups       Acids         · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         /// MARPOL73/78 and the IBC Code       Not applicable.         // Safety, health and environmental regulations/legislation specific for the substance or mixture       •         · United States (USA)       ·         · Safety, health and environmental regulations/legislation specific for the substance or mixture       ·         · United States (USA)       ·         · Safety and the ingredients are listed.       ·         · Section 302 (extremely hazardous substances):       None of the ingredients are listed.         · Section 313 (Specific toxic chemical listings):       ·         · T664-93-9 [Sulfuric acid       ·         · TSCA (Toxic Substances Control Act)       ·         · Toxic Substances Control Act)  | · Label   |                     |  |  |
| · Label       8         · Packing group       DOT, ADR/RID/ADN, IMDG, IATA         · DOT, ADR/RID/ADN, IMDG, IATA       III         · Environmental hazards       No         · Marine pollutant:       No         · Special precautions for user       Warning: Corrosive substances         · Hazard identification number (Kemler code):       80         · EMS Number:       F-A,S-B         · Segregation groups       Acids         · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         ////////////////////////////////////  |   |                     |  |  |
| · Label       8         · Packing group       DOT, ADR/RID/ADN, IMDG, IATA         · DOT, ADR/RID/ADN, IMDG, IATA       III         · Environmental hazards       No         · Marine pollutant:       No         · Special precautions for user       Warning: Corrosive substances         · Hazard identification number (Kemler code):       80         · EMS Number:       F-A,S-B         · Segregation groups       Acids         · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         ////////////////////////////////////  |   |                     |  |  |
| • DOT, ADR/RID/ADN, IMDG, IATA       III         • Environmental hazards       No         • Marine pollutant:       No         • Special precautions for user       Warning: Corrosive substances         • Hazard identification number (Kemler code):       80         • EMS Number:       F-A,S-B         • Segregation groups       Acids         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         • Tansport in formation       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 313 (Specific toxic chemical listings):       7664-93-9         • TSCA (Toxic Substances Control Act)       7664-93-9         • Proposition 65 (California)       Free Colifornia  |   |                     |  |  |
| Marine pollutant:       No         Special precautions for user       Warning: Corrosive substances         Hazard identification number (Kemler code):       80         EMS Number:       F-A,S-B         Segregation groups       Acids         Transport in bulk according to Annex II of<br>MARPOL73/78 and the IBC Code       Not applicable.         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or<br>mixture         United States (USA)       SARA         Section 302 (extremely hazardous substances):       None of the ingredients are listed.         Section 313 (Specific toxic chemical listings):       7664-93-9         Suffuric acid       TSCA (Toxic Substances Control Act)         7664-93-9       Sulfuric acid         7732-18-5       Water         Proposition 65 (California)       Ealier   |   | 111                 |  |  |
| Hazard identification number (Kemler code):       80         EMS Number:       F-A,S-B         Segregation groups       Acids         Transport in bulk according to Annex II of<br>MARPOL73/78 and the IBC Code       Not applicable.         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or<br>mixture         United States (USA)       SARA         Section 302 (extremely hazardous substances):       None of the ingredients are listed.         Section 313 (Specific toxic chemical listings):       7664-93-9 [Sulfuric acid         TSCA (Toxic Substances Control Act)       7664-93-9 [Sulfuric acid         7732-18-5 [Water       Proposition 65 (California)   |   | No                  |  |  |
| MARPOL73/78 and the IBC Code       Not applicable.         15 Regulatory information   | Hazard identification number (Kemler code):<br>EMS Number:  | 80<br>F-A,S-B       |  |  |
| <ul> <li>Safety, health and environmental regulations/legislation specific for the substance or mixture</li> <li>United States (USA)</li> <li>SARA</li> <li>Section 302 (extremely hazardous substances):         <ul> <li>None of the ingredients are listed.</li> <li>Section 313 (Specific toxic chemical listings):</li> <li>7664-93-9 Sulfuric acid</li> <li>TSCA (Toxic Substances Control Act)</li> <li>7664-93-9 Sulfuric acid</li> <li>7732-18-5 Water</li> <li>Proposition 65 (California)</li> </ul> </li> </ul>  |   |                     |  |  |
| <ul> <li>mixture</li> <li>United States (USA)</li> <li>SARA</li> <li>Section 302 (extremely hazardous substances):</li> <li>None of the ingredients are listed.</li> <li>Section 313 (Specific toxic chemical listings):</li> <li>7664-93-9 Sulfuric acid</li> <li>TSCA (Toxic Substances Control Act)</li> <li>7664-93-9 Sulfuric acid</li> <li>7732-18-5 Water</li> <li>Proposition 65 (California)</li> </ul>   | 15 Regulatory information   |                     |  |  |
| None of the ingredients are listed.         • Section 313 (Specific toxic chemical listings):         7664-93-9       Sulfuric acid         • TSCA (Toxic Substances Control Act)         7664-93-9       Sulfuric acid         7732-18-5       Water         • Proposition 65 (California)  | mixture<br>United States (USA)  |                     |  |  |
| · Section 313 (Specific toxic chemical listings):         7664-93-9       Sulfuric acid         · TSCA (Toxic Substances Control Act)         7664-93-9       Sulfuric acid         7664-93-9       Sulfuric acid         7732-18-5       Water         · Proposition 65 (California)  |   |                     |  |  |
| 7664-93-9       Sulfuric acid         TSCA (Toxic Substances Control Act)         7664-93-9       Sulfuric acid         7732-18-5       Water         Proposition 65 (California)  | • Section 313 (Specific toxic chemical listings):         7664-93-9       Sulfuric acid         • TSCA (Toxic Substances Control Act) |                     |  |  |
| · TSCA (Toxic Substances Control Act)         7664-93-9       Sulfuric acid         7732-18-5       Water         · Proposition 65 (California)  |   |                     |  |  |
| 7732-18-5 Water • Proposition 65 (California)  |   |                     |  |  |
| · Proposition 65 (California)  |   |                     |  |  |
|  | 7732-18-5 Water   |                     |  |  |
|  |   |                     |  |  |
|  | · Chemicals known to cause cancer:  |                     |  |  |
| (Cont'd. on page 9)  |   | (Cont'd. on page 9) |  |  |

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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.

### **16 Other information**

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 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A · 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 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtel.com