

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

**Product Name** • **Cupric Sulfate Solution or Copper Sulfate Solution**

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

**Recommended use** • Flotation of concentrates and other uses

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

**Manufacturer** • Nyrstar Clarksville Inc.  
Zinc Plant Rd PO Box 1104  
Clarksville, TN 37041-1104  
United States

**Telephone (General)** • (931) 552-4200

#### Emergency telephone number

**Manufacturer** • (931) 552-4200 - Technical Service

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

**OSHA HCS 2012**

- Corrosive to Metals 1
- Acute Toxicity Oral 4
- Skin Irritation 2
- Eye Irritation 2
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Carcinogenicity 1A
- Specific Target Organ Toxicity Repeated Exposure 1
- Hazardous to the aquatic environment Acute 1
- Hazardous to the aquatic environment Chronic 1

#### Label elements

OSHA HCS 2012

#### DANGER



**Hazard statements** • May be corrosive to metals  
Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation  
May cause cancer.  
Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects

## Precautionary statements

- Prevention** • Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep only in original container.  
Do not breathe mists, vapours, and/or spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • Absorb spillage to prevent material damage.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
If on skin: Wash with plenty of water .  
Take off contaminated clothing and wash before reuse.  
Specific treatment, see supplemental first aid information.  
If skin irritation occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
Rinse mouth.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.

- Storage/Disposal** • Store in corrosive resistant/ container with a resistant inner liner.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Supplemental information** • <2 percent of this product consists of an ingredient of unknown toxicity.

## Other hazards

- OSHA HCS 2012** • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Copper(II) sulfate, pentahydrate (1:1:5)	CAS:7758-99-8	18% TO 30%	Ingestion/Oral-Rat LD50 • 300 mg/kg	OSHA HCS 2012: Acute Tox. 3 (Orl); STOT RE 1 (Liver); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Resp. Irrit.;	NDA
Zinc sulfate (1:1)	CAS:7733-02-0	< 2%	NDA	OSHA HCS 2012: Eye Irrit. 2	NDA
			Inhalation-Rat LC50 •		

Sulfuric acid	CAS:7664-93-9	< 1%	510 mg/m <sup>3</sup> 2 Hour(s) Ingestion/Oral-Rat LD50 • 2140 mg/kg	OSHA HCS 2012: Eye Dam. 1, Skin Corr. 1B	NDA
Cadmium sulfate (1:1)	CAS:10124-36-4	< 1%	Ingestion/Oral-Rat LD50 • 280 mg/kg	OSHA HCS 2012: Carc. 1A; Acute Tox. 3 (Orl); STOT RE 1 (Kidney, Bones, Lungs)	NDA

## Section 4: First-Aid Measures

### Description of first aid measures

- Inhalation**
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.
- Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.
- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

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

- Refer to Section 11 - Toxicological Information.

### Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Fire-Fighting Measures

### Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRES: Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.  
SMALL FIRES: Dry chemical, CO<sub>2</sub> or water spray.
- Unsuitable Extinguishing Media**
- No data available

### Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Containers may explode when heated.  
May be corrosive to metals.  
If heated above 600°C SO<sub>2</sub> is evolved. If water is used it will solubilize CuSO<sub>4</sub>.  
Contact with magnesium may evolve hydrogen gas.  
Anhydrous salt will ignite hydroxylamine if present.  
It is incompatible with hydroxylamine, magnesium and acetylene.  
In solutions where sulfuric acid is present: Will liberate hydrogen when reacting with metals.  
In solutions where zinc and/or cadmium is present: Emits toxic fumes under fire conditions.

- Hazardous Combustion Products**
- Oxides of sulfur and copper.

### Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Wear positive pressure self-contained breathing apparatus (SCBA).  
SMALL FIRES: Move containers from fire area if you can do it without risk.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

#### Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

### Environmental precautions

- Avoid run off to waterways and sewers.

### Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Confine spill and introduce lime or soda ash to form insoluble copper salt. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.  
Dike to collect large liquid spills.

## Section 7 - Handling and Storage

### Precautions for safe handling

#### Handling

- Handle and open container with care. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Containers of this material may be hazardous when empty since they retain product residues. Empty and clean containers of all residues before disposal.

### Conditions for safe storage, including any incompatibilities

#### Storage

- Keep container/package tightly closed in a cool, well-ventilated place. Protect containers against physical damage and moisture. Store in Plastic, rubber, 304, 347, or 316 stainless steels.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Sulfuric acid (7664-93-9)	TWAs	0.2 mg/m <sup>3</sup> TWA (thoracic fraction)	1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup> TWA
Copper(II) sulfate, pentahydrate (1:1:5)	TWAs	1 mg/m <sup>3</sup> TWA (dust and mist, as Cu) <i>as Copper compounds</i>	1 mg/m <sup>3</sup> TWA (dust and mist, as Cu) <i>as Copper compounds</i>	Not established

### Exposure controls

#### Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal Protective Equipment****Respiratory**

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

**Eye/Face**

- Wear safety goggles.

**Skin/Body**

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

**Section 9 - Physical and Chemical Properties****Information on Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Liquid	Appearance/Description	Clear blue liquid.
Color	Clear blue.	Odor	No data available
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	> 100 °C(> 212 °F)	Melting Point/Freezing Point	< 0 °C(< 32 °F)
Decomposition Temperature	No data available	pH	1
Specific Gravity/Relative Density	1.2 to 1.3 @ 4 °C(39.2 °F) Water=1	Water Solubility	100 %
Viscosity	No data available		
<b>Volatility</b>			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
<b>Flammability</b>			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

**Section 10: Stability and Reactivity****Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

**Conditions to avoid**

- Incompatible materials. Excess heat.

## Incompatible materials

- Corrosive to mild steel. Avoid alkaline materials. Anhydrous salt will ignite hydroxylamine if present. It is incompatible with hydroxylamine, magnesium and acetylene. In solutions where sulfuric acid is present: Organics, chlorates, carbides, nitrates, picrates, powdered metals, fulmates and combustible materials. Is corrosive to mild steel.

## Hazardous decomposition products

- Above 600 C sulfur dioxide is evolved. High temperature operations such as oxy-acetylene cutting, electric arc welding on dried residues of this material may generate toxic copper fumes and sulfur dioxide. The fumes will contain copper oxides, which, on inhalation of sufficient quantity, can produce metal fume fever. In solutions where sulfuric acid is present: Thermal decomposition may release toxic oxides of sulfur. In solutions where zinc is present: Zinc/zinc oxides, sulfur oxides, hydrogen sulfide gas is released. In solutions where cadmium is present: Highly toxic fumes of cadmium and cadmium oxides.

## Section 11 - Toxicological Information

### Information on toxicological effects

Components		
Copper(II) sulfate, pentahydrate (1:1:5) (18% TO 30%)	7758-99-8	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 300 mg/kg; Ingestion/Oral-Human TDLo • 272 mg/kg; <b>Liver:Other changes; Kidney, Ureter, and Bladder:Other changes; Blood:Other hemolysis with or without anemia;</b> Skin-Rat LD50 • >2 g/kg
Zinc sulfate (1:1) (< 2%)	7733-02-0	<b>Irritation:</b> Eye-Rabbit • 420 µg • Moderate irritation
Cadmium sulfate (1:1) (< 1%)	10124-36-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 280 mg/kg; <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 315 mg/kg 3 Week(s)-Intermittent; <b>Reproductive Effects:Paternal Effects:Spermatogenesis; Reproductive Effects:Paternal Effects:Testes, epididymis, sperm duct; Related to Chronic Data:Changes in testicular weight;</b> <b>Mutagen:</b> DNA damage • Ingestion/Oral-Rat • 140 mg/kg; <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 35230 mg/kg (1-19D preg); <b>Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Maternal-fetal exchange</b>
Sulfuric acid (< 1%)	7664-93-9	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 2140 mg/kg; Inhalation-Rat LC50 • 510 mg/m <sup>3</sup> 2 Hour(s); <b>Irritation:</b> Eye-Rabbit • 250 µg • Severe irritation; <b>Reproductive:</b> Inhalation-Rabbit TCLo • 20 mg/m <sup>3</sup> 7 Hour(s)(6-18D preg); <b>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system</b>

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix (oral) = 1000 mg/kg
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2
Skin sensitization	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available

STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

## Potential Health Effects

### Inhalation

- Acute (Immediate)** • May cause respiratory irritation.
- Chronic (Delayed)** • No data available

### Skin

- Acute (Immediate)** • Causes skin irritation.
- Chronic (Delayed)** • No data available

### Eye

- Acute (Immediate)** • Causes serious eye irritation.
- Chronic (Delayed)** • No data available

### Ingestion

- Acute (Immediate)** • Harmful if swallowed.
- Chronic (Delayed)** • Copper(II) sulfate, pentahydrate (1:1:5) may have effects on the liver when ingested.

### Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects		
	CAS	IARC
Cadmium sulfate (1:1)	10124-36-4	Group 1-Carcinogenic
Sulfuric acid	7664-93-9	Group 1-Carcinogenic

#### Key to abbreviations

LC = Lethal Concentration  
LD = Lethal Dose  
TC = Toxic Concentration  
TD = Toxic Dose

## Section 12 - Ecological Information

### Toxicity

- Cupric sulfate is an ecotoxin, a severe marine pollutant.

### Persistence and degradability

- Material data lacking.

### Bioaccumulative potential

- Material data lacking.

### Mobility in Soil

- Material data lacking.

### Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### Waste treatment methods

- Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN1760	Corrosive Liquid N.O.S.	8	III	Marine Pollutant

**Special precautions for user** • None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • Acute, Chronic

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Cadmium sulfate (1:1)	10124-36-4	Yes	No	Yes	No	Yes
Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	No	No	No	No	No
Sulfuric acid	7664-93-9	Yes	No	Yes	No	Yes
Zinc sulfate (1:1)	7733-02-0	Yes	No	Yes	No	Yes

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

- |  |            |  |
|--|------------|--|
| • Copper(II) sulfate, pentahydrate (1:1:5) | 7758-99-8  | D2B  |
| • Cadmium sulfate (1:1)                    | 10124-36-4 | D1A, D2A   |
| • Zinc sulfate (1:1)                       | 7733-02-0  | Uncontrolled product according to WHMIS classification criteria            |
| • Sulfuric acid                            | 7664-93-9  | D1A, E (including 50% (14.2N), >51%, 85% (30.8)); E (2% (0.4N), 4.9% (1N)) |

#### Canada - WHMIS - Ingredient Disclosure List

- |  |            |            |
|--|------------|------------|
| • Copper(II) sulfate, pentahydrate (1:1:5) | 7758-99-8  | Not Listed |
| • Cadmium sulfate (1:1)                    | 10124-36-4 | 0.1 %      |
| • Zinc sulfate (1:1)                       | 7733-02-0  | 1 %        |
| • Sulfuric acid                            | 7664-93-9  | 1 %        |

### Environment

#### Canada - CEPA - Priority Substances List

- |  |           |            |
|--|-----------|------------|
| • Copper(II) sulfate, pentahydrate (1:1:5) | 7758-99-8 | Not Listed |
|--|-----------|------------|



• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	1000 lb final RQ; 454 kg final RQ
• Sulfuric acid	7664-93-9	1000 lb final RQ; 454 kg final RQ

#### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	1000 lb EPCRA RQ

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	1000 lb TPQ

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed

• Sulfuric acid	7664-93-9	1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)
<b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>		
• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

## United States - California

### Environment

#### U.S. - California - Proposition 65 - Carcinogens List

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

#### U.S. - California - Proposition 65 - Developmental Toxicity

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

#### U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

#### U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	Not Listed
• Cadmium sulfate (1:1)	10124-36-4	Not Listed
• Zinc sulfate (1:1)	7733-02-0	Not Listed
• Sulfuric acid	7664-93-9	Not Listed

## Section 16 - Other Information

### Revision Date

• 25/September/2017

**Preparation Date**

- 10/August/2012

**Disclaimer/Statement of Liability**

- This safety data sheet is offered solely for your information, consideration and investigation. It provides no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

**Key to abbreviations**

NDA = No Data Available