



**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

<b>1.1</b>	<b>Product Identifier</b>	<b>E-Z POOL®</b>	
	<b>GHS Product Identifier</b>	<b>E-Z POOL®</b>	
	<b>Chemical Name</b>	Inorganic Salts Mixture	
	<b>Trade Name</b>	As above	
	<b>Cas No.</b>	Mixture	
	<b>Einecs No.</b>	Mixture	
	<b>Reach Registration No.</b>	Not available	
<b>1.2</b>	<b>Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against</b>		
	Identified Use(s)	Consult the supplier.	
	Uses Advised Against	Users are recommended to seek further advice.	
<b>1.3</b>	<b>Details Of The Supplier Of The Safety Data Sheet</b>		
	Company Identification	APi	
	Address	<b>880 Jupiter Park Drive, Suite 14 Jupiter, FL 33458</b>	
	Telephone	561-743-0449	
	E-Mail (Competent Person)	Kelly@apiwater.com	
<b>1.4</b>	<b>Emergency Telephone Number – ChemTel Inc.</b>		
		<b>(800)255-3924 (USA/Canada), 813-248-0585 (International)</b>	

**SECTION 2: HAZARDS IDENTIFICATION**

<b>2.1</b>	<b>Classification Of The Substance Or Mixture</b>		
<b>2.1.1</b>	<b>Regulation (EC) No. 1272/2008 (CLP) – 2.14/3 Oxidizing Solid, 3.2/2 Skin Irritant, 3.3/2 Serious Eye Irritant, 3.4/1 Respiratory, /Skin Sensitizer, 3.8/3 STOT/SE Respiratory, 4.1/1 Aquatic Toxicity.</b>		
<b>2.1.2</b>	<b>Directive 67/548/EEC &amp; Directive 1999/45/EC –</b>	Harmful, Irritant, Environmental Hazard, Oxidizer.	
<b>2.2</b>	<b>Label Elements</b>		
<b>2.2.1</b>	<b>Label Elements According to Regulation (EC) No. 1272/2008 (CLP)</b>		
	<b>GHS Product Identifier (EU)</b>		
	<b>Hazard Pictogram(s)</b>		<b>Signal Word(s)</b>
			<b>Danger</b>
	<b>Hazard Statement(s)</b>	H272 May intensify fire; oxidiser. H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H410: Very toxic to aquatic life with long lasting effects.	
	<b>Precautionary Statement(s)</b>	P220 Keep/Store away from clothing/ combustible materials. P261 Avoid breathing <b>dust/fume/gas/mist/vapours/spray</b> . P273 Avoid release to the environment. P280 Wear protective gloves/eye protection/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. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P501 Dispose of contents/container to an approved waste disposal plant.	

**2.2.2 Label Elements According to Directive 67/548/EEC & Directive 1999/45/EC**
**Hazard Symbol**

**Risk Phrases**

R8: Contact with combustible material may cause fire.  
 R22: Harmful if swallowed.  
 R36/37/38: Irritating to eyes, respiratory system and skin.  
 R42/43: May cause sensitization by inhalation and skin contact.  
 R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases**

S22 Do not breathe dust.  
 S24 Avoid contact with skin.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37 Wear suitable gloves.  
 S39 Wear eye/face protection.  
 S60 This material and its container must be disposed of as hazardous waste.  
 S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

**2.3 Other Hazards GHS Classification (USA): Hazardous under OSHA Hazard Communication Standard.**

**HMIS: Health-2, Flammability-0, Reactivity – 1**


**Hazard Statement(s)**

H272 May intensify fire; oxidiser.  
 H302: Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H371 May cause damage to organs.

**Precautionary Statement(s)**

P220 Keep/Store away from clothing/ combustible materials.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**WHMIS/GHS Classification (Canada):** **C Oxidizer, D1B** Toxic material causing immediate and serious toxic effects , **D2A** Respiratory sensitizer, **D2B** Moderate eye irritant, Skin sensitizer. **E** Corrosive Material.



### Hazard Statement(s)

H272 May intensify fire; oxidiser.  
 H302: Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318: Causes serious eye damage.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H371 May cause damage to organs.

### Precautionary Statement(s)

P220 Keep/Store away from clothing/ combustible materials.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
 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/ physician.  
 P330 Rinse mouth.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.4 Additional Information See Section 16 for additional information.

### Potential Health Effects

<i>Inhalation</i>	Irritation of the respiratory tract.
<i>Skin Contact</i>	Causes irritation. Possible sensitization and allergic contact dermatitis.
<i>Eye Contact</i>	Severe eye irritation with corneal burns.
<i>Ingestion</i>	Harmful if swallowed. Effects and Symptoms - Weakness, Headache, nausea and vomiting, Bloodstained vomiting, Nausea, Bloodstained diarrhoea. May cause internal burns to digestive tract.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EC Classification No. 1272/2008/EC and GHS Classification					
Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
Proprietary Ingredient	30-60%	NR	NR	NA	2.14/3, 3.1/4, 3.3/2, 3.8/3, 3.2/2, 3.4/1 : H372, H272, H302, H315, H317, H319, H334, H335.
Proprietary Ingredient	20-40%	NR	NR	NA	3.3/1: H318
Proprietary Ingredient	5-15%	NR	NR	NA	3.1/4, 3.3/2 :H302, H319.
Copper Sulfate, Pentahydrate	1-6%	7758-98-7	231-64-6	NA	3.1/4, 3.3/2, 3.2/2, 4.1/1. : H302, H315, H319, H410
EC Classification No. 67/548/EEC					
Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Risk (R) Phras(es)
Proprietary Ingredient	30-60%	NR	NR	NA	O ;Xn ;Xi : R8, R22,R36/37/38, R42/43
Proprietary Ingredient	20-40%	NR	NR	NA	Xi : R41
Proprietary Ingredient	5-15%	NR	NR	NA	Xn ; Xi : R22,R36
Copper II Sulfate, Pentahydrate	1-6%	7758-98-7	231-64-6	NA	Xn ;N : R22,R36/38, R50/53
<p><b>3.3 Additional Information</b> - For full text of H phrases see section 16. For full text of R phrases see section 16. Non-Hazardous ingredients are not listed and make up the balance of the product.</p>					

## SECTION 4: FIRST AID MEASURES

<b>4.1 Description Of First Aid Measures</b>	
Inhalation	Remove patient from exposure. Have the contaminated individual blow nose. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.
Skin Contact	Remove contaminated clothing immediately and drench affected skin with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
Ingestion	Avoid ingestion. Do not induce vomiting. Get immediate medical attention. <b>CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.</b>
<b>4.2 Most Important Symptoms And Effects, Both Acute And Delayed</b>	<p><b>Acute:</b> Depending on the duration of contact, over-exposures can mildly to moderately irritate the eyes, skin, mucous membranes, and any other exposed tissue. Severe, prolonged eye contact may result in blindness. If inhaled, irritation of the respiratory system may occur, with coughing and breathing difficulty. Severe ingestion over-exposures may be fatal.</p> <p><b>Delayed and Chronic Effects:</b> The Oxidizer component is a skin sensitizer; prolonged or repeated contact with this product may result in the development of dermatitis, rashes, and other allergic skin reactions. Refer to Section 11 (Toxicology Information) for additional information on this product's components.</p>

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<b>4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed</b>	Treat symptomatically. Eliminate overexposure.
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## SECTION 5: FIRE-FIGHTING MEASURES

Not Flammable. No declared Flash Point, Explosive Limits, or Auto-Ignition Temperature.	
<b>5.1 Extinguishing Media</b>	
Suitable Extinguishing Media	Extinguisher suitable for ordinary combustible materials. Class A extinguishing agents.
Unsuitable Extinguishing Media	None known.
<b>5.2 Special Hazards Arising From The Substance Or Mixture</b>	May intensify fire; oxidizer. A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
<b>5.3 Advice for Fire-fighters</b>	Extinguish preferably with dry chemical, foam or water spray.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions, Protective Equipment And Emergency Procedures</b>	Avoid dust generation. Ensure full personal protection (including respiratory protection) during removal of spillages. In case of a spill, clear the affected area and protect people. For small releases (e.g., 2 pound release), clean-up spilled solid wearing gloves, goggles, and suitable body protection. The minimum Personal Protective Equipment recommended for response to non-incident releases (e.g., 300 pound release) should be Level C: triple-gloves (rubber gloves, nitrile gloves over latex gloves), chemical resistant suit and boots, hard-hat, and an air-purifying respirator (with high efficiency particulate filter). Sweep-up or vacuum spilled solid. Triple-rinse area with water. Place all spill residue in a suitable container. Dispose of in accordance with applicable U.S. Federal, State, or local procedures, or the appropriate standards of Canada, Australia, and EU Member States.
<b>6.2 Environmental Precautions</b>	Ventilation recommended.
<b>6.3 Methods And Material For Containment And Cleaning Up</b>	Collect mechanically and dispose of according to Section 13. Transfer to a lidded container for disposal or recovery. Avoid dust generation. Ensure adequate ventilation.
<b>6.4 Reference To Other Sections</b>	See Also Section 7, 8, 13.
<b>6.5 Additional Information</b>	None

## SECTION 7: HANDLING AND STORAGE

<b>7.1 Precautions For Safe Handling</b>	Avoid contact with skin and eyes. Wash hands before eating, drinking or smoking. Avoid accumulation of dust. Use only in well-ventilated areas.
<b>7.2 Conditions For Safe Storage, Including Any Incompatibilities</b>	Store in the original container in a cool, dry well ventilated area. Keep containers tightly sealed. Store containers away from wood, cardboard boxes, and other combustible materials. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Do not seal a container into which wetted product has been placed. The wetted product will generate toxic gases (e.g., sulfur compounds). If this reaction occurs in a sealed container, there will be a build-up of pressure, which can result in an inhalation exposure to a significant level of toxic substances upon opening the container. Additionally, there is the potential for the pressurized container to rupture. Empty containers may contain residual particulates; therefore, empty containers should be handled with care. Never store food, feed, or drinking water in containers which held this product.
Storage Temperature	Ambient.
Storage Life	Not available

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Incompatible Materials Separate from Organic substances, strong acids, strong bases, powdered metal. This product contains an oxidizer (the Oxidizer component); care should be taken to avoid exposing this substance to combustible materials in transport (and storage).

**7.3 Specific End Use(s)** Consult the supplier.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control Parameters

## 8.1.1 Occupational Exposure Limits

Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
Proprietary Ingredient	NR	NE	0.1	NE	NE	ACGIH
		NE	NE	NE	NE	OSHA
Proprietary Ingredient	NR	NE	NE	NE	NE	ACGIH
		NE	NE	NE	NE	OSHA
Proprietary Ingredient	NR	NE	10	NE	20	ACGIH
		NE	10 (vacated )	NE	20 (vacated )	OSHA
Proprietary Ingredient	NR	NE	2	NE	NE	ACGIH
		NE	2	NE	NE	OSHA
Copper II Sulfate,* Pentahydrate ; Exposure limits are for copper soluble compounds, as Cu & copper dusts & mists, as Cu. * Carcinogen: EPA Class D.	7758-987	NE	Soluble Compounds: NIC = <b>0.05</b> (resp.frac.) Dusts & Mists: <b>1</b>	NE	NE	ACGIH
		NE	Dusts & Mists: <b>1</b>	NE	NE	OSHA





## 8.1.2 Biological Limit Value

Limit Value Type (Country Of Origin)	Substance	CAS No.	Biological Limit Value	Note:
USA	None listed.	NA	NA	NA

## 8.1.3 PNECs and DNELs

No PNECs or DNELs available for product.

### 8.2.2 Personal Protection Equipment

	<b>Respirators</b>	Avoid breathing dust. Assess exposure concentrations of all materials involved in the workplace. If concentrations exceed the exposure limits listed in Exposure Guidelines or irritation or other symptoms experienced, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.
	<b>Eye Protection</b>	Avoid eye contact. Wear protective eyewear (goggles, face shield, or safety glasses).
	<b>Gloves</b>	Wear protective gloves.
	<b>Body Protection</b>	Avoid skin contact. Wear suitable protective clothing and gloves.
	<b>Engineering Controls</b>	Provide sufficient ventilation, particularly in closed rooms. Maintain employee exposure below applicable permissible exposure limits.
	<b>Other</b>	Remove contaminated, saturated clothing immediately. Contaminated clothing should be thoroughly cleaned.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information On Basic Physical And Chemical Properties

Appearance	Crystalline Solid	Color	White
Odor	Odorless	Odor Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	Not established	Boiling Point/Boiling Range (°C)	Not available
Flash Point (°C)	Not applicable	Explosive Limit Ranges	Not available
Auto Ignition Temperature (°C)	Not available	Decomposition Temperature (°C)	Not available
Explosive Properties	Not available	Oxidizing Properties	May intensify fire; oxidizer.
Flammability (Solid, Gas)	Not available	Ph (Value)	5.7
Evaporation Rate	Not applicable.	Vapor Pressure (mm Hg)	Not available
Vapor Density (Air=1)	Not applicable.	Density (g/ml)	2.48
Solubility (Water)	Soluble	Solubility (Other)	Not available
Partition Coefficient (N-Octanol/Water)	Not available	Viscosity (mPa.s)	Not available

**9.2 Other Information** Volatile Organic Chemical (VOC) Content –Not applicable.

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Moderate.
<b>10.2 Chemical Stability</b>	Stable under normal conditions.
<b>10.3 Possibility Of Hazardous Reactions</b>	Not available
<b>10.4 Conditions To Avoid</b>	Avoid exposure or contact to incompatible chemicals and combustible materials.
<b>10.5 Incompatible Materials</b>	Organic substances, strong acids, strong bases, powdered metal. This product contains an oxidizer; care should be taken to avoid exposing this substance to combustible materials.



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**10.6 Hazardous Decomposition Product(s)** Ammonia, Carbon oxides, Sulphur oxides, Copper oxides  
Aluminum oxide and a variety of inorganic compounds  
containing potassium, sodium, calcium.

## SECTION 11: TOXICOLOGICAL INFORMATION

SUBSTANCE.	CAS No.	LD <sub>50</sub> (Oral, Rat)	LC <sub>50</sub> (Inhalation, Rat)	LD <sub>50</sub> (Dermal, Rat)
Proprietary Ingredient	NR	802 mg/kg	NE	NE
Proprietary Ingredient	NR	NE	NE	NE
Proprietary Ingredient	NR	1650 mg/kg	NE	NE
Proprietary Ingredient	NR	6207 mg/kg	NE	NE
Copper II Sulfate, <sup>^</sup> Pentahydrate	7758-98-7	300mg/kg	NE	NE

*Avoid accumulation of dust.*

**11.1 Information On Toxicological Effects****11.1.2 Mixtures**

## Acute Toxicity

*Inhalation*

Harmful if inhaled. Causes respiratory tract irritation.

*Skin Contact*

Causes severe skin irritation. Corrosive to skin.

*Eye Contact*

Causes serious eye damage. Corrosive to eyes.

*Ingestion*

Effects and Symptoms - Weakness, Headache, nausea and vomiting, Bloodstained vomiting, Nausea, Bloodstained diarrhoea. May cause internal burns to digestive tract.

## Irritation

Causes eye irritation. May cause respiratory irritation. May cause transient irritation. This product can moderately to severely irritate to contaminated tissue.

## Corrosivity

Corrosive to skin and eyes.

## Sensitisation

The Oxidizer component is a skin and respiratory sensitizer; contact with this product may cause allergic skin and respiratory reaction in susceptible individuals.

## Repeated Dose Toxicity

May produce an allergic reaction in persons already sensitised..

## Carcinogenicity

No data.

## Mutagenicity

No data.

Toxicity for  
Reproduction

Slight.

**11.2 Other Information**

None

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

Very toxic to algae. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic invertebrates. Do not discharge cleaning water into small waters bodies. Do not empty into drains; dispose of this material and its container in a safe way.

**12.2 Persistence and Degradability**

No data

**12.3 Bioaccumulative Potential**

No data



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<b>12.4</b>	<b>Mobility In Soil</b>	No data
<b>12.5</b>	<b>Results Of PBT And vPvB Assessment</b>	No data.
<b>12.6</b>	<b>Other Adverse Effects</b>	No data.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1</b>	<b>Waste Treatment Methods</b>	Solid or chemical waste generators must determine whether a disc waste is classified as a hazardous waste. U.S. EPA guidelines for classifications determination are listed in 40 CFR parts 261.3. Disposal should be in accordance with local, state or national legislation.
<b>13.2</b>	<b>Additional Information</b>	Do not empty into drains; dispose of this material and its container in a safe way.

## SECTION 14: TRANSPORT INFORMATION

<b>Land Transport (ADR/RID) (c)(d)</b>		<b>Land Transport (Within USA) (b)(d)</b>	
UN Number	UN 3077	UN Number	UN 3077
Proper Shipping Name	Environmentally hazardous substances, n.o.s.	Proper Shipping Name	Environmentally hazardous substances, n.o.s.
Transport Hazard Class(es)	9	Transport Hazard Class(es)	9
Packing Group	III	Packing Group	III
Hazard Label(s)	Class 9 (Miscellaneous Hazardous Material)	Hazard Label(s)	Class 9 (Miscellaneous Hazardous Material)
Environmental Hazards	Harmful	Environmental Hazards	Harmful
Special Precautions For User	None	Special Precautions For User	None
<b>Sea Transport (IMDG) (c)</b>		<b>Air Transport (ICAO/IATA) (c) (d)</b>	
UN Number	UN 3077	UN Number	UN 3077
Proper Shipping Name	Environmentally hazardous substances, n.o.s. (contains copper sulfate)	Proper Shipping Name	Environmentally hazardous substances, n.o.s. (contains copper sulfate)
Transport Hazard Class(es)	Class 9 (Miscellaneous Hazardous Material)	Transport Hazard Class(es)	Class 9 (Miscellaneous Hazardous Material)
Packing Group	III	Packing Group	III
Marine Pollutant	P type marine pollutant.	Environmental Hazards	None
Special Precautions For User	274,909,944	Special Precautions For User	A97
<p>(b)- ORM-D may be applicable within the USA for package sizes less than 30kg.  (c)- Consult with transport provider.  (d)- Check relevant regulations for Special Provisions.</p>			
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>			

**SECTION 15: REGULATORY INFORMATION**
**15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture**
**15.1.1 EU Regulations**

Authorisations And/Or Restrictions On Use	Consult the supplier.
European Union (EINECS/ELINCS)	All chemicals listed.
German WGK Number	1

**15.1.2 National Regulations**
**USA**

TSCA (Toxic Substance Control Act)	Listed.
SARA 311/312 - Hazard Categories	Acute Health, Reactivity
SARA 302 - Extremely Hazardous Substances	None
SARA 313 - Toxic Chemicals	None
CERCLA (Comprehensive Environmental Response Compensation and Liability Act)	24000 lbs. RQ as soluble ammonium salt.
CAA (Clean Air Act 1990)	None
CWA (Clean Water Act)	None
State Right to Know Lists	Listed as required
Proposition 65 (California)	None listed.

**Canada**

WHMIS Classification	Class E, D1B, D2A, D2B
Canada (DSL/NDSL)	Listed - DSL
Canada Ingredient Disclosure List (CIDL)	Listed as required.

<b>15.2 Chemical Safety Assessment</b>	Oxidizer, Harmful By Ingestion, Corrosive, Irritant, Respiratory sensitizer.
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## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

## LEGEND

ACGIH	American Conference Of Governmental Industrial Hygienists	NA	Not Applicable, Not Available
AICS	Australian Inventory Of Chemical Substances	NIOSH	National Institute For Occupational Safety And Health
ANSI	American National Standards Institute	ND	Not Determined
atm	Atmosphere (Pressure Unit)	NFPA	National Fire Prevention Association
BOD	Biological Oxygen Demand	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OC	Open Cup
CC	Closed Cup	OSHA	Occupational Safety And Health Administration
CDTA	Chemical Drug And Trafficking Act	Part	Partition
COC	Cleveland Open Cup	PEL	Permissible Exposure Limits
COD	Chemical Oxygen Demand	ppb	Parts Per Billion
coeff.	Coefficient	PPE	Personal Protective Equipment
CFR	Code Of Federal Regulations	ppm	Parts Per Million
CPR	Cardio-Pulmonary Resuscitation	psi	Pounds Per Square Inch
DEA	Drug Enforcement Agency	RCRA	Resource Conservation And Recovery Act
DOT	Department Of Transportation	RQ	Reportable Quantity
DSCCL	Dangerous Substances Classification And Labeling	RTK	Right To Know
EEC	European Economic Community	SARA	Superfund Amendments And Reauthorization Act
FDA	Food And Drug Administration	STEL	Short-Term Exposure Limit
HMIS	Hazardous Materials Information System	SUSDP	Standard For The Uniform Scheduling Of Drugs And Poisons (Australia)
IARC	International Agency For Research On Cancer	TCC	Tagliabue Closed Cup
IDLH	Immediate Danger To Life Or Health	TDG	Transportation Of Dangerous Goods
kg	Kilogram	TPQ	Threshold Planning Quantity
L	Liter	TQ	Threshold Quantity
LC <sub>50</sub>	Median Lethal Concentration	TSCA	Toxic Substances Control Act
LD <sub>50</sub>	Median Lethal Dose	TWA	Time-Weighted Average
LEL	Lower Explosive Limit	UEL	Upper Explosive Limit
mg	Milligram	WES	Workplace Exposure Standard (New Zealand)
mL	Milliliter	WHMIS	Workplace Hazardous Material Information System

**References:** RTECS, CAS Registry, EINECS/ESIS, *Casarett & Doull's Toxicology*, *Goldfrank's Toxicological Emergencies*, Manufacturer Information

**Risk Phrases and Safety Phrases**

R 8 Contact with combustible material may cause fire.

R22 Harmful if swallowed.

R36: Irritating to eyes.

R36/38: Irritating to eyes and skin.

R36/37/38 Irritating to eyes, respiratory system and skin.

R41 Risk of serious damage to eyes.

R42/43 May cause sensitization by inhalation and skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52 Harmful to aquatic organisms.

S22 Do not breathe dust.

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

S39 Wear eye/face protection.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

**Hazard Statements and Precautionary Statements**

H272 May intensify fire; oxidiser.  
H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.  
H371 May cause damage to organs. (Target organ effect Liver, Kidney Blood =Copper sulfate).  
H400 Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

P220 Keep/Store away from clothing/ combustible materials.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
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/ physician.  
P330 Rinse mouth.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Training Advice:** None

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