Min. Gusmer Ente	rprises, Inc. [®]		Issue Date: 05/27/15 Version: 1.0
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	SA	FETY DATA SHEE	TFORM
Section 1 - PRODUCT and CO	Product Identifier:	Copper Sulfa	te 1%
1.1 Product Identifier			
1.2 Relevant identified uses Intended Product Use:	s of the substance or mixture and uses an Treatment of wine.	lvised against	
1.3 Details of the supplier of Manufacturer/Distributor:	f the safety data sheet Gusmer Enterprises, Inc.		
Postal Address:	640-D Airpark Road, Napa, CA 94558 USA		
Telephone Number:	(01)(707) 224-7903 [USA] (product info)		
Hours of Operation:	Monday - Friday 8:00am-5:00pm PST		
1.4 Emergency telephone no Medical Emergency: Chemical Emergency:	911		
Section 2 - HAZARDS IDENTI			
Acute Toxicity, Oral (Ca Skin Irritation (Category Eye Irritation (Category : Acute Aquatic Toxicity (Chronic Aquatic Toxicity	accordance with 29 CFR 1910 (OSHA HCS tegory 4) 2) 28) Category 1)	5)	
2.2 Label Elements Hazard Pictogram(s):	! \$	Signal Word: W	arning
Hazard Statements: Harmful if swallowed. Causes skin irritation. Causes serious eye irritatio Very toxic to aquatic life wi		If on skin: Wash with J Wash skin thoroughly If skin irritation occurs: Take off contaminated Do not eat, drink or sm If swallowed: Call a pc If in eyes: Rinse cautic If eye irritation persists	nvironment s/protective clothing/eye protection/face protection. plenty of water.
Section 3 - COMPOSITION / I	FORMATION on INGREDIENTS		
ngredient(s)	Common Name & Synonyms	Percentage	CAS No.
Copper (II) Sulfate Pentahydrate	Blue vitriol, Copper sulfate pentahydrate	1%	7758-99-8
Vater	NA	99%	7732-18-5
Section 4 - FIRST AID MEASU	IRES		
4.1 Description of the first a Eye Contact: Skin Contact: Inhalation: Ingestion:	After eye contact: rinse out with plenty of water. After skin contact: wash off with plenty of water After inhalation: fresh air.	. Remove contaminated clo	thing.). Consult a physician. Never give anything by mouth to an unconscious person.
Eye Contact: Skin Contact: Inhalation:		es serious eye irritation.	
Chronic Effects:	No Data Available		
	iate medical attention and special treatment No special advice, treat symptomatically.	ent needed	

Gusmer Enter	rprises, Inc.®				Issue Date: 05/27/15 Version: 1.0
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		SAFETY	DATA SHEET FORM		-
Section 5 - FIREFIGHTING ME	Product Identifier: ASURES		Copper Sulfate 1%		
5.1 Extinguishing Media Suitable Extinguishing Media: Unsuitable Extinguishing Media:	Use extinguishing measures t For this substance/mixture no	that are appropriate to local b limitations of extinguishing	circumstances and the surrounding enviro agents are given.	onment.	
5.2 Special hazards arising Ambient fire may liberate ha Sulphur oxides, Copper oxid	azardous vapors.	xture			
5.3 Advice for firefighters As in any fire, wear NIOSH-	-approved self contained breat	thing apparatus and approp	riate protective clothing.		
Section 6 - ACCIDENTAL REL	EASE MEASURES				
6.1 Personal precautions, pr Use personal protective eque procedures, consult an experience	uipment. Avoid substance cont		s, mist or gas. Ensure adequate ventilation	on. Evacuate personne	I to safe areas, observe emergency
6.2 Environmental precaution Do not let product enter dra		or spillage if safe to do so. N	lotify authorities if liquid enters sewers or	public waters.	
6.3 Methods and materials f Cover drains. Soak up spill			soon as possible. Collect spillage. Store	away from other mater	ials.
See Section 8 for approp Section 7 - Handling and Stora	oriate personal protective ec age	quipment.			
7.1 Precautions for safe har Wash hands and other expo Wash contaminated clothing	osed areas with mild soap and	water before eating, drinkir	ng or smoking and when leaving work. Pr	ovide good ventilation ir	n process area to prevent formation of vapor
7.2 Conditions for safe storage, including any incompatibilities Keep container closed when not in use. Incompatible products: Strong reducing agents. Strong bases. Strong acids. Incompatible materials: Sources of ignition. Direct sunlight.					
See Section 8 for OSHA Section 8 - EXPOSURE CONT	permissible exposure limit(
8.1 Control parameters	KOL/ FERSONAL FRO	TECTION			
Copper (II) Sulfate Pentahydrate:	OSHA P NA	PEL	ACGIH TLV-TWA 1 mg/m ³ Inhalation	R	NIOSH REL EL-TWA 1 mg/m ³ Inhalation
	NA			R	
Copper (II) Sulfate Pentahydrate:	NA Normal Handling Condition Use process enclosures, loca	15 al exhaust ventilation, or oth		vels below recommence	EL-TWA 1 mg/m ³ Inhalation
Copper (II) Sulfate Pentahydrate: 8.2 Exposure controls	NA Normal Handling Condition Use process enclosures, loca generate dust, fume or mist, r	is al exhaust ventilation, or oth use ventilation to keep expo	TLV-TWA 1 mg/m ³ Inhalation	vels below recommence exposure level.	EL-TWA 1 mg/m ³ Inhalation
Copper (II) Sulfate Pentahydrate: 8.2 Exposure controls	NA Normal Handling Condition Use process enclosures, loca generate dust, fume or mist, Handle in accordance with go Use a properly fitted, air-purif	ns al exhaust ventilation, or oth use ventilation to keep expo pod industrial hygiene and s fying or air-fed respirator co	TLV-TWA 1 mg/m ³ Inhalation ar engineering controls to keep airborne le sure to airborne contaminants below the afety practice. Wash hands before break	vels below recommend exposure level. s and at the end of wor k assessment indicates	EL-TWA 1 mg/m ³ Inhalation led exposure limits. If user operations kday. : this is necessary. Respirator selection mu:
Copper (II) Sulfate Pentahydrate: 8.2 Exposure controls Engineering Controls: Respiratory Protection:	NA Normal Handling Condition Use process enclosures, loca generate dust, fume or mist, u Handle in accordance with go Use a properly fitted, air-punf be based on known or anticip	ns al exhaust ventilation, or oth use ventilation to keep expo pood industrial hygiene and s fying or air-fed respirator co pated exposure levels, the h	TLV-TWA 1 mg/m ³ Inhalation er engineering controls to keep airborne le ssure to airborne contaminants below the afety practice. Wash hands before break mplying with an approved standard if a ris	vels below recommend exposure level. s and at the end of wor k assessment indicates	EL-TWA 1 mg/m ³ Inhalation led exposure limits. If user operations kday. : this is necessary. Respirator selection mu:
Copper (II) Sulfate Pentahydrate: 8.2 Exposure controls Engineering Controls: Respiratory Protection: Eye Protection:	NA Normal Handling Condition Use process enclosures, loca generate dust, fume or mist, Handle in accordance with go Use a property fitted, air-purif be based on known or anticip Wear chemical splash goggle Avoid skin contact by wearing	IS al exhaust ventilation, or oth use ventilation to keep expo pool industrial hygiene and s tying or air-fed respirator co pated exposure levels, the h es when handling this produ g chemically resistant glove: regular intervals. Clean pr	TLV-TWA 1 mg/m ³ Inhalation er engineering controls to keep airborne le ssure to airborne contaminants below the afety practice. Wash hands before break mplying with an approved standard if a ris azards of the product and the safe workin ct. Have an eye wash station available. s, an apron and other protective equipmer	vels below recommence exposure level. s and at the end of wor k assessment indicates g limits of the selected t depending upon conc	EL-TWA 1 mg/m ³ Inhalation led exposure limits. If user operations kday. : this is necessary. Respirator selection mu respirator.
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Copper (II) Sulfate Pentahydrate: 8.2 Exposure controls Engineering Controls: Respiratory Protection: Eye Protection: Skin Protection: General Hygiene:	NA Normal Handling Condition Use process enclosures, loca generate dust, fume or mist, i Handle in accordance with go Use a property fitted, air-purif be based on known or anticip Wear chemical splash goggle Avoid skin contact by wearing break-through and replace at drinking, and when leaving we Maintain good housekeeping	ns al exhaust ventilation, or oth use ventilation to keep expo pool industrial hygiene and s fying or air-fed respirator co vated exposure levels, the h es when handling this produ g chemically resistant glove regular intervals. Clean pro ork.	TLV-TWA 1 mg/m ³ Inhalation er engineering controls to keep airborne le sure to airborne contaminants below the afety practice. Wash hands before break mplying with an approved standard if a ris azards of the product and the safe workin ct. Have an eye wash station available. s, an apron and other protective equipment regularly. Wash hands	vels below recommence exposure level. s and at the end of wor k assessment indicates g limits of the selected at depending upon conce s and other exposed an	EL-TWA 1 mg/m ³ Inhalation led exposure limits. If user operations kday. : this is necessary. Respirator selection mu respirator.
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Copper (II) Sulfate Pentahydrate: 8.2 Exposure controls Engineering Controls: Respiratory Protection: Eye Protection: Skin Protection: Skin Protection: General Hygiene: Section 9 - PHYSICAL and CH 9.1 Information on basic ph Physical State: Color: Odor Threshold: pH: Melting / Freezing Point (Specify): Initial Boiling Point & Boiling Range: Flash Point: Evaporation Rate: Flammability (solid, gas): Explosive Limits:	NA Normal Handling Condition Use process enclosures, loca generate dust, fume or mist, u Handle in accordance with ge Use a properly fitted, air-purif be based on known or anticip Wear chemical splash goggle Avoid skin contact by wearing break-through and replace at drinking, and when leaving w Maintain good housekeeping EMICAL PROPERTIES Vsical and chemical prope Liquid Blue Odorless No Data Available LL: No Data Available LL:	IS al exhaust ventilation, or oth use ventilation to keep expo- bood industrial hygiene and s tying or air-fed respirator co- bated exposure levels, the h es when handling this produ g chemically resistant glove: regular intervals. Clean pro ork.	TLV-TWA 1 mg/m ³ Inhalation er engineering controls to keep airborne le sure to airborne contaminants below the afety practice. Wash hands before break mplying with an approved standard if a ris azards of the product and the safe workin ct. Have an eye wash station available. s, an apron and other protective equipment regularly. Wash hands	vels below recommence exposure level. s and at the end of wor k assessment indicates g limits of the selected at depending upon conce s and other exposed an	EL-TWA 1 mg/m ³ Inhalation led exposure limits. If user operations kday. : this is necessary. Respirator selection mu respirator.
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	Product Identifier:	SAFE	TY DATA SH Copper S		7
Section 10 - STABILITY and F	REACTIVITY				
10.1 Reactivity Not generally reactive under	er normal conditions				
10.2 Chemical stability Stable under recommende					
10.3 Possibility of hazardou No Data Available					
10.4 Conditions to avoid Avoid contact with oxidizing	agents				
10.5 Incompatible materials		ona reducina agents	Magnesium		
10.6 Hazardous decomposi Sulfur containing gases, Co	tion products	ong roddoing agoino	, magnoolam		
Section 11 - TOXICOLOGY IN					
11.1 Information on toxicol					
Toxicology Data:		Exposure Route		d in parts from products of a similar structure	or composition.
Acute Toxicity:	Toxicity Test	Oral	Dose	Observed Effect Not Available	
Copper (II) Sulfate Pentahydrate:	LD ₅₀ (Mouse) LD ₅₀ (Rat) LDLO (Human)	Dermal Oral	43 mg/kg >2000 mg/kg 1,088 mg/kg	Not Available Not Available Not Available	
Skin Corrosion/Irritation:	Irritant to skin.				
Serious Eye Damage/Eye Irritation:	Irritating effect. Risk of cornea	I clouding. Conjunct	ivitis.		
Respiratory or Skin Sensitization:	No Data Available				
STOT - Single Exposure:	No Data Available				
STOT - Repeated Exposure:	No Data Available				
Aspiration Hazard:	No Data Available				
11.2 Further Information Mutagenicity:	No Data Available				
Reproductive Toxicity:	No Data Available				
Carcinogenicity:				40/ := :d==!#:=d=== ====:==============	
IARC: ACGIH:	No component of this product	present at levels grea	ater than or equal to	.1% is identified as a carcinogen or potential .1% is identified as a carcinogen or potential	carcinogen by ACGIH.
NTP: OSHA:				.1% is identified as a carcinogen or potential .1% is identified as a carcinogen or potential	
Section 12 - ECOLOGICAL IN	FORMATION				
12.1 Toxicity Copper (II) Sulfate Pentahydrate:	Toyicity to fish - 1 C50 - Oncor	whether mykics (rain)	ow trout): 0.11 mg/	06h (anhydraus substanca)	
	Toxicity to daphnia and other a			gna (Water Flea): 0.02 mg/l; 48h (anhydrous	substance) (ECOTOX Database)
12.2 Persistence and degra No Data Available					
12.3 Bioaccumulative poter No Data Available	ntial				
12.4 Mobility in soil May be harmful to plant groups	owth, blooming and fruit formatio	n.			
12.5 Other adverse effects Avoid release to the enviro	nment.				
Fungicide					
Section 13 - DISPOSAL CONS					
Substance: Section 14 - TRANSPORTATI		ainer in accordance	with local, regional, r	ational, and/or international regulations.	
UN Number:	UN 3077				
Class: Proper Shipping Name:	9 Environmentally Hazardous Si	Ibstance Solid N.O.	S (Copper (II)-Sulph	te	
Packing Group:	Packing Group: III				
Marine Pollutant: Other Applicable	No data available No data available				
Information:					
Section 15 - REGULATORY INFORMATION					
15.1 Safety, health and env TSCA: Listed	ironmental regulations/legi	siation specific fo	or the substance of	r mixture	
SARA State SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313: Copper (II) Sulphate Pentahydrate is subject to reporting levels established by SARA Title III, Section 313. SARA 311/312: Acute Health Hazard.					
California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.					
	The product does not collidin	any onomidals killow		sina to cause cancer, bitti derects, of ally of	

Gusmer Ente	Issue Date: 05/27/15 Version: 1.0				
		SAFETY DATA SHEET FORM			
	Product Identifier:	Copper Sulfate 1%			
Section 16 - OTHER INFORM	ATION				
Product Number(s):	CUSO4-1-1000ML, CUSO4-	1-60ML			
Prepared By:	Gusmer Enterprises, Inc.	Name of Preparer: Eric Anderson Title: Safety, Compliance & GMP Manager Date: 5/27/2015			
accepted by us for errors or or breach of any statute or regula circumstances. Since the infor	DISCLAIMER: While the information in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors or omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, we can accept no responsibility for any loss or damage caused by any person acting or refraining from acting as a result of this information.				
		GHS Hazard Warning Label			
	If on skin: Wash with plenty of v If skin irritation occurs: Get med Take off contaminated clothing I If swallowed: Call a poison cente If in eyes: Rinse cautiously with eye irritation persists: Get medit Dispose of contents/ container t	ive clothing/ eye and face protection. water. Wash skin thoroughly after handling. icial advice/attention. & wash it before reuse. Do not eat, drink or smoke when using this product. er or doctor/ physician if you feel unwell. Rinse mouth. water for several minutes. Remove contact lenses, if present. Continue rinsing. If			