

**MSDS (Material Safety Data Sheet)
Copper Complexer - C2063**

1		Product Identification	
	1	Manufacturer:	
		1 Name:	Angelgilding.com
		2 Street Address:	619 S. Clarence Ave
		3 City, State, and Zip:	Oak Park, IL 60304-1303
		4 24-hour Emergency Number	(708) 383-3340
	2	Product Code(s):	Copper Complexer - C2063
	3	Preparer:	
		1 Name:	M. G. King
		2 Phone Number:	(708) 383-3340
		3 Revision Information:	5/24/2008
2		Composition/Information on Ingredients	
		Per Ingredient:	
		1 Synonyms:	Rochelle Salt
		2 CAS Id:	6381-59-5
		3 Formula:	KNaC4H4O6 . 4H2O
		4 Formula Weight:	282.22
		5 Percent:	24
		6 Hazardous:	
		Per Ingredient:	
		1 Synonyms:	Sucrose
		2 CAS Id:	57-50-1
		3 Formula:	C12H22O11
		4 Formula Weight:	342.3
		5 Percent:	10
		6 Hazardous:	No
		Per Ingredient:	
		1 Synonyms:	Glycerol
		2 CAS Id:	56-81-5
		3 Formula:	C3H5(OH)3
		4 Formula Weight:	92.1
		5 Percent:	7
		6 Hazardous:	No
3		Hazards Identification	
	1	Overview:	CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. HIGH CONCENTRATIONS MAY IRRITATE EYES AND RESPIRATORY TRACT. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY AFFECT KIDNEYS.
	2	SAF-T-DATA Ratings:	
		1 Health Rating:	2 - Moderate (Life)
		2 Flammability Rating:	2 - Moderate
		3 Reactivity Rating:	1 - Slight
		4 Contact Rating:	1 - Slight
		5 Protective Equipment:	GOGGLES; LAB COAT; PROPER GLOVES
		6 Storage Color Code:	Green (General Storage)
	3	Potential Health Effects:	
		1 Inhalation:	May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

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		2	Ingestion:	Low toxicity. Large oral doses may cause irritation to the gastrointestinal tract. May cause sore throat, abdominal pain, nausea, headache, diarrhea.
		3	Skin Contact:	May cause irritation with redness and pain.
		4	Eye Contact:	May cause irritation, redness and pain.
		5	Chronic Exposure:	May cause kidney injury.
		6	Aggravation of Pre-existing Conditions:	People with pre-existing heart disease, low sodium diet, pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.
4			First Aid Measures	
	1		Inhalation:	Remove to fresh air. Get medical attention for any breathing difficulty.
	2		Ingestion:	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
	3		Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
	4		Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
	5		Note to Physician:	
5			Fire Fighting Measures:	
	1		Fire:	Flash point: 199C (390F) CC. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.
	2		Explosion:	Above flash point, vapor-air mixtures may cause flash fire.
	3		Fire Extinguishing Media:	Water spray, dry chemical, alcohol foam, or carbon dioxide.
	4		Special Information:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
6			Accidental Release Measures:	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified above. Spills: Sweep up and containerize for reclamation or disposal. Do not use combustible materials, such as saw dust. Do not flush to sewer!
7			Handling and Storage:	Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
8			Exposure Controls/Personal Protection:	
	1		Airborne Exposure Limits:	
		1	OSHA PEL:	
			Respirable fraction	5 mg/m ³
			Total dust	15 mg/m ³
		2	ACGIH TLV:	10 mg/m ³ (TWA), A4 - Not classifiable as a human carcinogen

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	2	Ventilation System:	In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
	3	Personal Respirators (NIOSH Approved):	For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
	4	Skin Protection:	Wear protective gloves and clean body-covering clothing.
	5	Eye Protection:	Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.
9		Physical and Chemical Properties:	
	1	Appearance:	Colorless liquid
	2	Odor:	
	3	Solubility in water:	Completely
	4	Density (g cm-3):	1.1
	5	pH:	7 to 8
	6	% Volatiles by volume @ 21C (70F):	
	7	Boiling Point: °C	100
	8	Melting Point (°C):	0
	9	Vapor Density (Air=1):	
	10	Vapor Pressure (mm Hg):	
	11	Evaporation Rate (BuAc=1):	
10		Stability and Reactivity:	
	1	Stability:	Stable under ordinary conditions of use and storage.
	2	Hazardous Decomposition Products:	Carbon dioxide and carbon monoxide may form when heated to decomposition. Toxic gases and vapors may be released if involved in a fire. Glycerol decomposes upon heating above 290C, forming corrosive gas (acrolein).
	3	Hazardous Polymerization:	
	4	Incompatibilities:	Acids, calcium or lead salts, silver nitrate, magnesium sulfate, oxidizers, sulfuric acid and nitric acid. Can react violently with acetic anhydride, calcium oxychloride, chromium oxides and alkali metal hydrides.
	5	Conditions to Avoid:	Heat, flames, ignition sources and incompatibles.
11		Toxicological Information:	
	1	Oral rat LD50:	
	2	Tumorigen:	
	3	Mutagen:	Investigated
	4	Reproductive effector:	Investigated
	5	Carcinogenicity:	
	6	IARC Category:	
	7	Skin rabbit:	

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	8	Eye rabbit:	
	9	Inhalation rat LC50	
12		Ecological Information	
	1	Environmental Fate:	When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.
	2	Environmental Toxicity:	
13		Disposal Considerations:	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
14		Transport Information:	
	1	Domestic (Land, D.O.T.):	
		1 Proper Shipping Name:	
		2 Hazard Class:	
		3 UN/NA:	
		4 Packing Group:	
		5 Information reported for product/size:	
	2	International (Water, I.M.O.):	
		1 Proper Shipping Name:	
		2 Hazard Class:	
		3 UN/NA:	
		4 Packing Group:	
		5 Information reported for product/size:	
	3	International (Air, I.C.A.O.):	
		1 Proper Shipping Name:	
		2 Hazard Class:	
		3 UN/NA:	
		4 Packing Group:	
		5 Information reported for product/size:	
15		Regulatory Information:	
	1	TSCA:	Y
	2	EC:	Y
	3	Japan:	Y
	4	Australia:	Y
	5	Korea:	Y
	6	Canada	Y

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	7	Chemical Weapons Convention:	
	8	Known to the State of California to cause cancer (Y/N):	
	9	Australian Hazchem Code:	
	10	Poison Schedule:	
	11	Controlled Products Regulations:	
16		Other Information	
	1	NFPA Ratings:	
		1 Health:	1
		2 Flammability:	1
		3 Reactivity:	0
	2	Label Hazard Warning:	CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY AFFECT KIDNEYS.
	3	Label Precautions:	Avoid contact with eyes, skin and clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.
	4	Label First Aid:	If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
	5	Product Use:	Commercial mirroring
	6	Disclaimer:	

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