

MSDS (Material Safety Data Sheet) Copper Solution - C2062

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 Solution - C2062
2		Preparer:	
	1	Name:	M. G. King
	2	Phone Number:	(708) 383-3340
	3	Revision Information:	5/23/2008
2		Composition/Information on Ingredients	
		Per Ingredient:	
		1 Synonyms:	COPPER(II) chloride, cupric chloride
		2 CAS Id:	10125-13-0
		3 Formula:	CuCl ₂
		4 Formula Weight:	170.48
		5 Percent:	6
		6 Hazardous:	
3		Hazards Identification	
	1	Overview:	Mild irritant and corrosive.
	2	SAF-T-DATA Ratings:	
		1 Health Rating:	
		2 Flammability Rating:	
		3 Reactivity Rating:	
		4 Contact Rating:	
		5 Protective Equipment:	Chemical safety goggles. Rubber gloves and rubber apron may be worn.
		6 Storage Color Code:	
	3	Potential Health Effects:	
		1 Inhalation:	
		2 Ingestion:	Mild irritant and corrosive.
		3 Skin Contact:	Mild irritant and corrosive.
		4 Eye Contact:	Irritant.
		5 Chronic Exposure:	
		6 Aggravation of Pre-existing Conditions:	
4		First Aid Measures	
	1	Inhalation:	Remove person to fresh air and call a physician. If not breathing, administer artificial respiration. Get medical attention.
	2	Ingestion:	Toxic - give large amounts of milk or water. Do not give liquids to an unconscious person. Contact a physician.
	3	Skin Contact:	Wash thoroughly with soap and water. Call a physician if irritation persists. Remove and wash contaminated clothing before reuse. Remove and destroy contaminated shoes.
	4	Eye Contact:	Immediately flush eyes with plenty of water for 15 minutes. Hold eyelids apart during irrigation. Call a physician.
	5	Note to Physician:	
5		Fire Fighting Measures:	
	1	Fire:	

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	2	Explosion:	
	3	Fire Extinguishing Media:	
	4	Special Information:	
6		Accidental Release Measures:	
7		Handling and Storage:	Store in plastic drums or plastic storage tank.
8		Exposure Controls/Personal Protection:	All precautions should be taken to prevent skin and eye contact with this material. Design of equipment and operational procedures should be such that the possibility of skin and eye contact does not exist.
	1	Airborne Exposure Limits:	
		1 OSHA PEL:	
		2 ACGIH TLV:	
	2	Ventilation System:	Use positive ventilation.
	3	Personal Respirators (NIOSH Approved):	
	4	Skin Protection:	
	5	Eye Protection:	
9		Physical and Chemical Properties:	
	1	Appearance:	Green solution
	2	Odor:	Pungent
	3	Solubility in water:	Complete
	4	Density (g cm-3):	1.1
	5	pH:	
	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:	Hydrochloric acid
	3	Hazardous Polymerization:	
	4	Incompatibilities:	Bases, cellulose, starch, paper, metals, hydrazine and nitromethane.
	5	Conditions to Avoid:	
11		Toxicological Information:	
	1	Oral rat LD50:	
	2	Tumorigen:	
	3	Mutagen:	
	4	Reproductive effector:	
	5	Carcinogenicity:	
	6	IARC Category:	
	7	Skin rabbit:	
	8	Eye rabbit:	
	9	Inhalation rat LC50	

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12		Ecological Information	
	1	Environmental Fate:	
	2	Environmental Toxicity:	Copper compounds are very toxic to aquatic life. May be dangerous if it enters the public water systems. Follow local regulations. Toxic to fish and plants.
13		Disposal Considerations:	Comply with Federal, State, and local regulations on reporting spills. Do not wash away the solution. Recover. If product is in a confined solution, react with Soda Ash to form an insoluble Copper Carbonate solid that can be scooped up. Do not reuse container. Vacuum up solutions or scoop up insoluble Copper Carbonate and dispose of in an approved landfill.
14		Transport Information:	
	1	Domestic (Land, D.O.T.):	
		1 Proper Shipping Name:	RQ Corrosive Liquid, Acidic, Inorganic, N.O.S. (Cupric Chloride-Hydrochloric Acid)
		2 Hazard Class:	8
		3 UN/NA:	UN3264
		4 Packing Group:	II
		5 Information reported for product/size:	1 liter
	2	International (Water, I.M.O.):	
		1 Proper Shipping Name:	RQ Corrosive Liquid, Acidic, Inorganic, N.O.S. (Cupric Chloride-Hydrochloric Acid)
		2 Hazard Class:	8
		3 UN/NA:	UN3264
		4 Packing Group:	II
		5 Information reported for product/size:	1 liter
	3	International (Air, I.C.A.O.):	
		1 Proper Shipping Name:	RQ Corrosive Liquid, Acidic, Inorganic, N.O.S. (Cupric Chloride-Hydrochloric Acid)
		2 Hazard Class:	8
		3 UN/NA:	UN3264
		4 Packing Group:	II
		5 Information reported for product/size:	1 liter
15		Regulatory Information:	
	1	TSCA:	
	2	EC:	
	3	Japan:	
	4	Australia:	
	5	Korea:	
	6	Canada	
	7	Chemical Weapons Convention:	
	8	Known to the State of California to cause cancer (Y/N):	N
	9	Australian Hazchem Code:	

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	10	Poison Schedule:	
	11	Controlled Products Regulations:	This product contains the following substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: COPPER Approximately 6%
16		Other Information	
	1	NFPA Ratings:	
		1 Health:	
		2 Flammability:	
		3 Reactivity:	
	2	Label Hazard Warning:	
	3	Label Precautions:	
	4	Label First Aid:	
	5	Product Use:	Commercial mirroring
	6	Disclaimer:	
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