



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
200	Health Hazard 2 Fire Hazard 0	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	Cuprous oxide		Catalog Number(s).	C1450
			CAS#	1317-39-1
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	GL8050000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Cuprous oxide
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Not available.		N. G. G. O. P. C.	
Chemical Name			-	EMERGENCY C (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	Cu2O			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	-		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Cuprous oxide		1317-39-1				100
Toxicological Data on Ingredients	Cuprous oxide: ORAL (LD50):	Acute: 470 mg/l	kg [Rat].	ı		

Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of eye contact

(irritant).

Potential Chronic Health Effects

Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Slightly hazardous in case of eye contact (irritant).

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS**: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available. The substance is toxic to kidneys, lungs, liver.

Repeated or prolonged exposure to the substance can produce target organs damage.

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Cuprous oxide	Page Number: 2		
Section 4. First A	Section 4. First Aid Measures		
Eye Contact	No known effect on eye contact, rinse with water for a few minutes.		
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.		
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.		
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.		
Serious Inhalation	Not available.		
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.		
Serious Ingestion	Not available.		

Section 5. Fire and E.	Section 5. Fire and Explosion Data			
Flammability of the Product	Non-flammable.			
Auto-Ignition Temperature	Not applicable.			
Flash Points	Not applicable.			
Flammable Limits	Not applicable.			
Products of Combustion	Not available.			
Fire Hazards in Presence of Various Substances	Not applicable.			
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.			
Fire Fighting Media and Instructions	Not applicable.			
Special Remarks on Fire Hazards	Not available.			
Special Remarks on Explosion Hazards	Not available.			

Section 6. Accidental Release Measures		
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.	
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.	

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Section 7. Handling a	and Storage		
Precautions	Do not ingest. Do not breathe dust. Avoid contact with skin Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.		
Storage	No specific storage is required. Use shelves or casure that it is not necessary to strain to reach mate	binets sturdy enough to bear the weight of the chemicals. Berials, and that shelves are not overloaded.	
Section 8. Exposure	Controls/Personal Protection		
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.		
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sur	e to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill		Gloves. A self contained breathing apparatus should be used otective clothing might not be sufficient; consult a specialis	
Exposure Limits	Not available.		
Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid. (Powdered solid.)	Odor Not available.	
Molecular Weight	143.08 g/mole	Taste Not available.	
pH (1% soln/water)	Not applicable.	Color Red.	
Boiling Point	1800°C (3272°F)		
Melting Point	1232°C (2249.6°F)		
Critical Temperature	Not available.		
Specific Gravity	6 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Insoluble in cold water.		
Section 10. Stability a	and Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Not available.		
Incompatibility with various substances	Not available.		
Corrosivity	Non-corrosive in presence of glass.		

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Cuprous oxide		Page Number: 4
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 470 mg/kg [Rat].	
Chronic Effects on Humans	The substance is toxic to kidneys, lungs, liver.	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans	Not available.	

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The products of degradation are as toxic as the original product.	
Special Remarks on the Products of Biodegradation	Not available.	

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information		
DOT Classification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	
DOT (Pictograms)		

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Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Cuprous oxide Massachusetts RTK: Cuprous oxide TSCA 8(b) inventory: Cuprous oxide

SARA 313 toxic chemical notification and release reporting: Cuprous oxide

CERCLA: Hazardous substances.: Cuprous oxide

Califorma
Proposition 65
Warnings

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications

WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

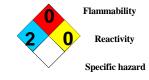
DSCL (EEC) R22- Harmful if swallowed. R38- Irritating to skin.

HMIS (U.S.A.)



National Fire Protection Association (U.S.A.)

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

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	Safety glasses.	
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Section 16. Other Information		
MSDS Code	C5060	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/11/2006.
CALL (310) 516-8000		

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.