



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
310	Health Hazard Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification Page Number:			Page Number: 1	
Common Name/ Trade Name	Cupferron		Catalog Number(s).	C1365
			CAS#	135-20-6
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	NC4725000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Cupferron
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	N-Hydroxy-N-nitrosobenzenamine ammonium salt		DI CAGE OF	TIMED CENTON
Chemical Name				EMERGENCY C (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C6H9N3O2			
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) Cupferron		135-20-6				100
Toxicological Data on Ingredients	Cupferron: ORAL (LD50):	Acute: 199 mg/l	kg [Rat].			

(irritant), of inhalation. Severe over-exposure can result in death.

Potential Chronic Health Extremely hazardous in case of ingestion. Hazardous in case of skin contact (irritant,

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

CARCINOGENIC EFFECTS: Classified 2 (Reasonably anticipated.) by NTP.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in

one or many human organs.

Cupferron	Page Number: 2
Section 4. First Ai	id Measures
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
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. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
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	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
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.

Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.	
Auto-Ignition Temperature	Not available.	
Flash Points	Not available.	
Flammable Limits	Not available.	
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).	
Fire Hazards in Presence of Various Substances	Not available.	
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	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
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.
Large Spill	Use a shovel to put the material into a convenient waste disposal container.

Serious Ingestion

Not available.

Cupferron			Page Number: 3
Section 7. Handling a	and Storage		
Precautions	evaporate the residue under a fume hood. Grour breathe dust. Wear suitable protective clothing	nd all equi In case c	ources of ignition. Empty containers pose a fire risk, ipment containing material. Do not ingest. Do not of insufficient ventilation, wear suitable respiratory d show the container or the label. Avoid contact with
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.		
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	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.		
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.		
Exposure Limits	Not available.		
Section 9. Physical a	and Chemical Properties		
Physical state and appearance	Solid. (Crystalline solid.)	Odor	Not available.
Molecular Weight	155.16 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Off-white.
Boiling Point	Decomposes.		
Melting Point	163.5°C (326.3°F)		
			

Solubility	Soluble in cold water, methanol, diethyl ether.		

See solubility in water, methanol, diethyl ether.

Not available.

Not available.

Not applicable.

Not available.

Not available.

Not available.

Not available.

Not available.

Critical Temperature

Specific Gravity

Vapor Pressure

Vapor Density

Odor Threshold

Water/Oil Dist. Coeff.

Dispersion Properties

Ionicity (in Water)

Volatility

Cupferron		Page Number: 4	
Section 10. Stability	Section 10. Stability 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.		
Special Remarks on Reactivity	Not available.		
Special Remarks on Corrosivity	Not available.		
Polymerization	No.		

Section 11. Toxicological Information		
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 199 mg/kg [Rat].	
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 2 (Reasonably anticipated.) by NTP.	
Other Toxic Effects on Humans	Extremely hazardous in case of ingestion. Hazardous in case of skin contact (irritant, permeator), 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 more toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

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Section 13. Disposal Considerations

Vaste Disposal

Section 14. Transport Information

DOT Classification CLASS 6.1: Poisonous material.

Identification : Cupferron : UN2811 PG: III

Special Provisions for Transport

Not available.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute:

Cupferron

California prop. 65: This product contains the following ingredients for which the State of California has found to

cause cancer which would require a warning under the statute: Cupferron

Pennsylvania RTK: Cupferron Massachusetts RTK: Cupferron TSCA 8(b) inventory: Cupferron

SARA 313 toxic chemical notification and release reporting: Cupferron

California
Proposition 65
Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Cupferron

Other Regulations

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

Other Classifications

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

DSCL (EEC)

R25- Toxic if swallowed.

R36/38- Irritating to eyes and skin. R45- May cause cancer.

HMIS (U.S.A.)

Health Hazard	3
Fire Hazard	1
Reactivity	0
Personal Protection	(E)

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

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



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Cupferron	Page Number: 6
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.



Splash goggles.

Section 16. Other Information			
MSDS Code	C4910		
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.