1220.

# COPPER CARBONATE MATERIAL SAFETY DATA SHEET General Information



# SECTION 1 GENERAL INFORMATION

Manufacturer's Name

Bernardy Chimie SA

Address

12, Route de Tours, 1800

City, State, Country

Thenioux, France

Distributed By

Don Ingraham & Co., Inc.

60 Highpoint Drive

Gulf Breeze, Florida 32561

**Emergency Telephone** 

1-800-424-9300 CHEMTREC

DATE PREPARED: February 1997
Other Information Calls 713-665-4040

# SECTION 2 NAME AND HAZARD SUMMARY

MATERIAL NAME: COPPER CARBONATE (CuCO<sub>3</sub>\*Cu(OH)<sub>2</sub>)

Hazard summary (as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Physical Hazards: None

Health Hazards: Inhalation (TLV), irritant (skin, eye, mucous membrane). Poisoning by copper salts may affect the liver and kidneys.

Read the entire MSDS for a more thorough valuation of the hazards.

SECTION 3 INGREDIENTS	%	TLV (ACGIH)
Copper Carbonate (CAS #12069-69	-1) 100	1 mg/m³ (Dusts & Mists as Cu)

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications.

DATE: 02/97 PAGE 2 OF 6

#### SECTION 4 PHYSICAL DATA

DensityAcid/base character of preparation	<del>-</del>
Solubility of preparation in water	
Vapor tension at 50°C of volatile constituents	:N-A
Physical state	:Solid (green)
Flash point interval	:N-A
pH of a 5% solution	
Self-ignition temperature	:N-A
Decomposition temperature	
melting temperature interval	
Average distillation temperature of solvents contained	

#### SECTION 5 FIRE AND EXPLOSION DATA

Flash point: Noncombustible

Auto-ignition temperature: No data Flammable limits (STP): No data

# Extinguishing media:

Dry chemical, carbon dioxide, water spray or foam

# Special fire fighting protective equipment:

Self-contained breathing apparatus with full facepiece operated in pressure demand or other positive pressure mode.

OR

Supplied-air respirator with full facepiece operated in pressure demand or other positive pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode.

MATERIAL NAME: COPPER CARBONATE (CuCO<sub>3</sub>\*Cu(OH)<sub>2</sub>) DATE: 02/97 PAGE 3 OF 6 SECTION 5 FIRE AND EXPLOSION DATA (Cont'd.) Unusual fire and explosion hazards: Negligible fire hazard when exposed to heat or flame. SECTION 6 REACTIVITY DATA Stability: Stable under normal conditions. Incompatibility (materials to avoid): None known. Hazardous decomposition products: Thermal decomposition may release toxic and/or hazardous gases. Hazardous polymerization: Will not occur. SECTION 7 HEALTH HAZARDS INFORMATION AND FIRST AID

#### Inhalation:

Acute exposure - May cause irritation of the mucous membranes. Exposure to copper fume may result in metallic taste, nausea, vomiting, and metal fume fever with chills, fever, aching muscles, dry throat and headache.

Chronic exposure - Repeated or prolonged inhalation of dust, mist or fumes of copper and copper salts may cause irritation of the upper respiratory tract and occasionally ulceration and perforation of the nasal septum.

First Aid - Remove victim from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Get medical attention immediately.

DATE: 02/97 PAGE 4 OF 6

# SECTION 7 HEALTH HAZARDS INFORMATION AND FIRST AID (Cont'd.)

#### Skin contact:

Chronic exposure - Repeated or prolonged exposure may cause dermatitis. Rarely, sensitization to copper may occur.

First Aid - Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15 - 20 minutes). Get medical attention immediately.

#### Eye contact:

Acute exposure - may cause irritation with redness, pain, and blurred vision.

Chronic exposure - Depending on concentration and duration of contact, repeated or prolonged exposure may result in symptoms as in acute exposure.

First Aid - Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15 - 20 minutes). In case of burns, apply sterile bandages loosely without medication. Get medical attention immediately.

# Ingestion:

Acute exposure - Acute Oral  $LD_{50}$  (rat) > 1350 mg/kg. Ingestion of copper salts may result in irritation of the gastrointestinal tract, nausea, vomiting, salivation, gastric pain, hemorrhagic gastritis, diarrhea, capillary damage, liver and kidney damage, and central nervous system stimulation followed by depression. Jaundice, pain in the liver, and hemolytic anemia have been reported following acute human poisonings.

Chronic exposure - Repeated ingestion of copper salts may result in anemia, liver and kidney damage.

DATE: 02/97 PAGE 5 OF 6

# SECTION 7 HEALTH HAZARDS INFORMATION AND FIRST AID (Cont'd.)

First Aid - Unless extensive vomiting has occurred, empty the stomach by gastric lavage with water, milk, sodium bicarbonate solution or a 0.1% solution of potassium ferrocyanide. Administer egg white and other demuloents. Get medical attention immediately. (Gossein, Clinical Toxicology of Commercial Products, 5th Ed.)

Administration of gastric lavage should be performed by qualified medical personnel.

#### Skin absorption:

Systemically toxic concentrations are likely to be absorbed through the skin in a man.

Medical conditions that may be aggravated by overexposure:

Persons with a history of chronic respiratory or skin disease may be at increased risk from exposure.

# SECTION 8 SPILL, LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case material is released or spilled:

Sweep up and place in suitable (fiberboard) containers for later disposal.

# Disposal method:

Do not reuse container. Disposal of material, washwater, spill residue, and container must be by methods consistent with local, state and federal regulations.

# SECTION 9 SPECIAL PROTECTION INFORMATION

#### Ventilation:

Provide local exhaust ventilation and/or general dilution ventilation to meet published exposure limits.

# Protective clothing:

Wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Use impervious gloves, arm covers and apron.

DATE: 02/97 PAGE 6 OF 6

# SECTION 9 SPECIAL PROTECTION INFORMATION (Cont'd.)

Eye protection:

Wear splash-proof or dust-resistant safety goggles to prevent contact with this substance.

Respirator:

If needed, use MSHA-NIOSH approved respirator for pesticides.

# SECTION 10 SPECIAL PRECAUTIONS AND COMMENTS

Storage:

Store below 50°C (95°F). Store in a clean, dry area. Do not store near feed, food, or within the reach of children.

# SECTION 11 REGULATORY INFORMATION

Toxic Substances Control Act (TSCA) Status:

The ingredients of this product are listed on the TSCA inventory but not reportable.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III:

There are no components present in this product at levels which could require reporting under this statute.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA):

There are no components present in this product at levels which could require reporting under this statute.

The information herein is given in good faith but no warranty, expressed or implied, is made.

PAGE 01

From : DON INGRAHAM & CD., INC. FAX NO. 984 934 1799

Apr. 22, 1997 03:55 PM

P@1

2



BERNARDY - CHIMIE S.A.

Sels minéraux lins : Ba Da Cr., Cu., K.,, Sr., Zo.,, Spécialités pour pyrotectime

Siège et Usine : 12, route de Tours 18100 THENIOUX

FRANCE

Thériaux, 25 03.97

DON INGRAHAM & CO.,Inc 50 Highpoint Orive Gulf breeze FLORIDA 32561

PRODUCT:

COPPER CARBONATE

GRADE:

**Unra light** CUCQ6

CODE: QUANTITY:

9000 Kg

ORDER :

PT 21297 dated 12/02/97

SALE:

97B-0308/1-360

		N. BATCHIN BATCHIN BATCHIN BATCHIN BAT				
ANALYSIS	N. BATCH N#91991 1235 Kg	N. BATCH N032091 875 Kg	N. BATCH N032101 1328 Kg	N. BATCH N032102 925 Kg	N. BATC N032201 825 Kg	
Assessment (R. S.)	Conform	Conform	Conform	Contarm	Conform	
APPEARANCE : File green powder Loca on drying at 85°C ( ? Nours) (%) :	0.38	0.35	0.23	0.044	0 087	
ON DRY PRODUCT	55.74	55.80	55.24	56.03	55 96	
Total Copper (%)	17	18	30	31	28	
ton (ppm)	435	365	364	174	263	
Chlaride (npm)	0.011	0.015	0.020	₩ 017	0 0.0	
insolubles in HCl (%):	1 -	0.60	0.62	0.81	0.81	
Bulk density (g/cm3)	0.61	0.00				
ORANULATION:	96 1	96.1	981	96.2		
Passing (twough 45 µ (%)		. 1-	•			

N. DESESQUELLES