

# MATERIAL SAFETY DATA SHEET

1004

#85673

## I PRODUCT IDENTIFICATION

MANUFACTURER'S NAME <b>Tennessee Chemical Company</b>	REGULAR TELEPHONE NO. 404-233-6811 EMERGENCY TELEPHONE NO. Chemtrec 800-424-9300
ADDRESS <b>3475 Lenox Rd. NE, Suite 670 Atlanta, Georgia 30326</b>	
TRADE NAME <b>Basic Copper Carbonate</b>	<b>Light and Dense Grades</b>
SYNONYMS <b>Copper Carbonate</b>	
SHIPPING NAME <sup>1</sup>	DOT: <b>Copper Carbonate</b> IATA:

## II HAZARDOUS INGREDIENTS<sup>2</sup>

MATERIAL OR COMPONENT	CAS NO.	%	HAZARD DATA
Basic Copper Carbonate * $Cu(OH)_2 \cdot CuCO_3$	12069-69-1	100	Air contaminant as dust or mist TWA 8 hr. =
Two grades:			
Light Grade, Bulk Density 30 - 35 lb/ft <sup>3</sup>			1 mg/M <sup>3</sup> as copper.
Dense Grade, Bulk Density 70 - 75 lb/ft <sup>3</sup>			
* Basic copper carbonate is not a hazardous material nor does it contain hazardous ingredients.			

## III PHYSICAL DATA

BOILING POINT, 760 MM HG	N. A. *	MELTING POINT Decomposes above 200° C.
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	4.0	VAPOR PRESSURE N. A.
VAPOR DENSITY (AIR = 1)	N. A.	SOLUBILITY IN H <sub>2</sub> O % BY WT Insoluble. Cold water = <0.0002 g/100 mls. Water decomposes
% VOLATILES BY VOL.	N. A.	EVAPORATION RATE (BUTYL ACETATE = 1) N. A.
APPEARANCE AND ODOR	Dark green powder	PH (AS IS) N. A. PH (1% SOLN.) N. D.

## IV FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD)	Not flammable	AUTOIGNITION TEMPERATURE	N. A.
FLAMMABLE LIMITS IN AIR, % BY VOL.	LOWER	-	UPPER -
EXTINGUISHING MEDIA	Extinguishing agent for the material that is burning.		
SPECIAL FIRE FIGHTING PROCEDURES	None known		
UNUSUAL FIRE AND EXPLOSION HAZARD	None known		

1. See references 1 and 2 2. See Instructions and references 1 to 8. \* N. A. - Not Applicable N. D. - Not Determined

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## V HEALTH HAZARD INFORMATION

HEALTH HAZARD DATA	HAZARD CLASSIFICATION	BASIS FOR CLASSIFICATION	SOURCE
ROUTES OF EXPOSURE  INHALATION	Not determined	TLV - TWA 8 hrs = 1 mg/M <sup>3</sup>	29 CFR § 1910.1200
SKIN CONTACT	Not irritating to skin (FHSLA)	Skin irritation Index (rabbits) = zero	Laboratory test on product
SKIN ABSORPTION	Not determined		
EYE CONTACT	Mild irritant.	Eye irritation score (rabbits) = 6.0; 3.7; and 0 at 24, 48 and 72 hours	Laboratory test on product
INGESTION	Moderate toxicity	Oral LD <sub>50</sub> (rats) = 0.625 to 1.250 g/kg body weight	Laboratory test on product

## EFFECTS OF OVEREXPOSURE

## ACUTE OVEREXPOSURE

Copper ingestion is seldom fatal. Ingestion may cause vomiting as copper is an emetic.

## CHRONIC OVEREXPOSURE

None known

## EMERGENCY AND FIRST AID PROCEDURES

**EYES:** Wash eyes with large amounts of water for at least 15 minutes. See a physician.

**SKIN:** No special procedures.

**INHALATION:** Remove worker from exposure and seek medical aid.

**INGESTION:** Drink large quantity of water or milk. Seek medical aid.

## NOTES TO PHYSICIAN

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## VI REACTIVITY DATA

## CONDITIONS CONTRIBUTING TO INSTABILITY

None known

## INCOMPATIBILITY

Mixing with acids will solubilize product to form the respective copper acid salts which are water soluble.

## HAZARDOUS DECOMPOSITION PRODUCTS

None known. High temperature decomposes product releasing CO<sub>2</sub>, producing cupric oxide.

## CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

None known

## VII DISPOSAL, SPILL OR LEAK PROCEDURES

## AQUATIC TOXICITY (E.G. 96 HR. TLM)

Not determined

## WASTE DISPOSAL METHOD

Remove waste to an approved chemical landfill for disposal.  
Product is not listed in 40 CFR 261.33. when discarded.

## STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Contain spill and if dry sweep up product and dispose in an approved landfill.  
If wet remove this insoluble product and dispose in an approved landfill.

## NEUTRALIZING CHEMICALS

Product is neutral and water insoluble. If it has been solubilized by an acid, use lime or soda ash to neutralize into insoluble product.

## VIII SPECIAL PROTECTION INFORMATION

## VENTILATION REQUIREMENTS

OSHA regulation 29 CFR 1910.1000 lists the 8 hour TWA for any copper dust as 1 mg/m<sup>3</sup> as copper.

## SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY (SPECIFY IN DETAIL)** An appropriate dust mask must be worn if TWA exceeds allowable limit.

**EYE** Chemical goggles should be worn when handling product and eye contact is possible.

**GLOVES** Not known to be necessary. However, wearing of chemical gloves is a good suggested practice when handling chemicals.

## OTHER CLOTHING AND EQUIPMENT

No other clothing or equipment is known to be necessary.

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### IX SPECIAL PRECAUTIONS

#### PRECAUTIONARY STATEMENTS

This product may be toxic to fish. Keep out of lakes, streams, or ponds.  
Keep product out of reach of children. Harmful if swallowed.

#### OTHER HANDLING AND STORAGE REQUIREMENTS

Store in a dry place.

#### ADDITIONAL REGULATORY CONCERNS

##### FEDERAL:

FDA

USDA

CPSC

TSCA IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? Yes

OTHER Light copper carbonate is registered with EPA as a pesticide.

##### STATE:

OSHA: Product is a hazardous material as defined by 29 CFR § 1910.1200 because its dust and mist is regulated as an air contaminant.

Product is not listed by the National Toxicology Program, the International Agency for Research on Cancer, nor the Registry of Toxic Effects of Chemical Substances (1981-82) as a carcinogen or a potential carcinogen.

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Revised  
6-6-84