

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT NAME: COPPER SULFATE, 20%  
SIZE: 120 ML, 500 ML  
CHEMICAL NAME: SEE FORMULA BELOW  
FORMULA: COPPER SULFATE.....20.0G  
DISTILLED WATER.....100.0ML  
MANUFACTURER: CAROLINA BIOLOGICAL SUPPLY COMPANY  
ADDRESS: 2700 YORK ROAD  
BURLINGTON, NC 27215  
FOR INFORMATION ON HEALTH HAZARDS CALL: (919) 584-0381  
FOR OTHER INFORMATION CALL: (919) 584-0381  
DATE: 2/9/87

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

PRINCIPAL HAZARDOUS COMPONENTS (%) COPPER SULFATE 20%  
TLV (UNITS): (CU) TLV: 1MG/CUBIC METER TXDS: (ORAL RAT) LD50  
300 MG/KG

SECTION III PHYSICAL DATA

BOILING POINT (F.): NO INFORMATION AVAILABLE  
VAPOR PRESSURE (MM HG.): NO INFORMATION AVAILABLE  
VAPOR DENSITY (AIR=1): NO INFORMATION AVAILABLE  
SPECIFIC GRAVITY (H2O=1): NO INFORMATION AVAILABLE  
PERCENT VOLATILE BY VOLUME (%): NO INFORMATION AVAILABLE  
EVAPORATION RATE (H2O=1): NO INFORMATION AVAILABLE  
SOLUBILITY IN WATER: COMPLETE  
APPEARANCE AND ODOR: BLUE, ODORLESS LIQUID

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): NONE  
EXTINGUISHER MEDIA: NONE  
FLAMMABLE LIMITS IN AIR % BY VOL.: NOT FLAMMABLE  
AUTOIGNITION TEMPERATURE: NONE  
SPECIAL FIRE FIGHTING PROCEDURES: NO INFORMATION AVAILABLE  
UNUSUAL FIRE AND EXPLOSION HAZARDS: NO INFORMATION AVAILABLE

SECTION VI HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: SEE SECTION II  
EFFECTS OF OVER EXPOSURE:  
ACUTE OVEREXPOSURE: POSSIBLE IRRITATION OF SKIN, EYES, MUCOUS MEMBRANES  
FROM CONTACT. NAUSEA, VOMITING, DIARRHEA FROM INGESTION. TOXIC BY INGESTION  
OR INHALATION.  
CHRONIC OVEREXPOSURE: NO INFORMATION AVAILABLE  
EMERGENCY AND FIRST AID PROCEDURES: CONSULT A PHYSICIAN IN ALL CASES OF  
OVEREXPOSURE.

INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT;  
GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.

EYES: FLUSH WITH PLENTY OF WATER.

SKIN: WASH WITH SOAP AND PLENTY OF WATER.

INGESTION: GIVE 2 GLASSES OF WATER AND INDUCE VOMITING IF CONSCIOUS;  
GIVE IMMEDIATE MEDICAL ATTENTION.

#### SECTION VI REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: EXTREME TEMPERATURES.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS, MAGNESIUM

HAZARDOUS DECOMPOSITION PRODUCTS: NO INFORMATION AVAILABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NO INFORMATION AVAILABLE

#### SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: USING THE  
PROPER PROTECTIVE EQUIPMENT, COVER THE SPILL WITH VERMICULITE OR ANOTHER  
SUITABLE ABSORBENT. WHEN COMPLETELY ABSORBED, SCOOP THE WASTE MATERIAL INTO  
A CLEAN CONTAINER.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL  
REGULATIONS.

#### SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): SEE VENTILATION

VENTILATION: LOCAL EXHAUST - FUME HOOD

PROTECTIVE GLOVES: RUBBER

EYE PROTECTION: CHEMICAL SPLASH-PROOF GOGGLES; DO NOT WEAR CONTACT LENSES  
WHILE WORKING IN THE LABORATORY.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: LAB COAT, EYE WASH, AND SAFETY SHOWER

#### SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP IN A TIGHTLY CLOSED  
CONTAINER.

OTHER PRECAUTIONS: NO INFORMATION AVAILABLE

APPROVED BY: DAN THOMAS