



# BASIC COPPER TS-53

TECHNICAL AGRICULTURAL FUNGICIDE

FOR FORMULATION

**KEEP OUT OF REACH OF CHILDREN  
WARNING-AVISO**

**SEE BACK PANEL FOR STATEMENT  
OF PRACTICAL TREATMENT**

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**ACTIVE INGREDIENT:**

Copper (Derived from Basic  
Copper Sulfate) ..... 53.0%

INERT INGREDIENTS: ..... 47.0%

Total ..... 100.0%

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**Net Weight 50 lbs. (22.7 Kg.)**

EPA REG. NO. 35896-4

EPA EST. NO. 35896-NJ-1



## BASIC COPPER SULFATE

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING—AVISO

Causes substantial but temporary eye injury. May cause skin sensitization in certain individuals. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid breathing dust. Protective clothing, including goggles, should be worn. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush with plenty of water. Call a physician.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public water unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For use only in formulating agricultural fungicide products. It is the responsibility of formulators using this product to register all formulations made for it with the EPA as a fungicide.

Before using this product to formulate any agricultural fungicide be sure to consult the technical manual which is available from the manufacturer.

### WARRANTY STATEMENT

Product warranted to meet label specifications. CP CHEMICALS, INC. guarantee shall be limited to the terms of the label, and subject thereto the buyer assumes any risk to persons or property arising out of use or handling not in accordance with label directions and accepts the product on these conditions. Nothing hereon should be construed as authorization to practice any unexpired patent.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste dump facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



CP CHEMICALS, Inc.

Arbor Street, Sewaren, NJ 07077 • 201-636-4300 • TELEX 235002

## TECHNICAL DATA SHEET

### TECHNICAL BASIC COPPER SULFATE

EPA Registration No. 35896-4

#### INTRODUCTION

Technical basic copper sulfate is a very versatile inorganic fungicide which has been commercially available for many years. Its usefulness has been proven throughout the world and it has been widely accepted. When formulated as a fungicide, Basic Copper Sulfate TS-53 gives effective control of many economically important plant diseases caused by fungi. Basic Copper Sulfate has also been shown to exert beneficial stimulatory effects on some plants.

#### CHEMICAL COMPOSITION

Empirical Formula:  $(\text{Cu}(\text{OH})_2)_3\text{CuSO}_4$

Basic Copper Sulfate; Copper oxy sulfate

CAS No. 20427-59-2

#### CHEMICAL AND PHYSICAL PROPERTIES OF TECHNICAL

Physical State:	Light green powder
Melting Point:	Decomposes
Purity (typical):	98%
Volatility:	Insignificant
Odor:	Insignificant
Stability:	Stable under ordinary storage conditions. Will decompose to sulfur trioxide at temperatures above 300°C. Avoid contact with acids.
Solubility:	Insoluble in water and normal solvents. Soluble in alkali, acids and $\text{NH}_4\text{OH}$ .

## ANALYTICAL METHOD

Assay - Sodium thiosulfate titration in presence of excess iodide ions and starch indicator. Copy available on request.

## PRECAUTIONS FOR SAFE USE

Corrosive - Causes irreversible eye damage. Maybe fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes or inhale dust. Wear goggles or face shield and dust mask while handling, mixing or loading. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

If swallowed give copious amounts of water and induce vomiting. In case of skin contact, wash affected areas thoroughly with soap and water. For eye contact, flush eyes with copious volumes of water and obtain medical attention immediately.

## DIRECTIONS FOR USE

Basic Copper Sulfate TS-53 is to be used only in formulating agricultural fungicide products and should be blended with appropriate diluents. It is the responsibility of formulators using this product to register all formulations with the EPA as a fungicide. The technical material should be stored in a clean, dry area and normal handling precautions for powder materials should be observed. When being formulated, intimate mixing of all components is necessary to provide a uniform and effective final formulation. Performance of final formulation will depend on the dispersant/surfactant system selected and is the responsibility of the formulator.

## REGISTERED USES

Basic Copper Sulfate formulations are registered for control of foliar diseases on many fruit, vegetables, field, ornamental and tropical crops. It is also registered as a seed dressing for rice, wheat and barley.

## COMPATIBILITY

Basic Copper Sulfate formulations are compatible with most of the commonly used insecticides, adjuvants and fungicides. Combination with strongly acidic materials is not recommended. Refer to the product label for more information on specific crops.

## FORMULATIONS AVAILABLE

CP Basic Copper Sulfate TS-53: A wettable powder containing basic copper sulfate equivalent to 53 % metallic copper by weight.

CP Basic Copper Sulfate TS-50: A wettable powder containing basic copper sulfate equivalent to 50% metallic copper by weight.

Experimental quantities and additional technical information may be obtained by writing CP Chemicals, Inc., Arbor Street, Sewaren, New Jersey, 07077.

## WARRANTY STATEMENT

CP CHEMICALS. INC., warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes all risk of any such use.