

## MATERIAL SAFETY DATA SHEET

### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

a. Product Identifier

Chemical Classes: Fungicide

Synonym: Carbendazim 50% SC

b. Name of Supplier, Address and Emergency Telephone Number

Name: Anhui Guangxin Agrochemical Co., Ltd.

Address: Pengcun Village, Xinhang Town, Guangde County, Xuancheng City, 242235, Anhui, China

c. Name of Manufacturer, Address and Emergency Telephone Number

Same as above.

d. Product Use: Agricultural fungicide

e. Date of MSDS Preparation (Y/M/D): 05-01-13

f. Name and Telephone Number of Party Responsible for MSDS Preparation:

Same as above.

### SECTION 2 INFORMATION ON INGREDIENTS

Active Ingredient: Carbendazim

Chemical Name:

IUPAC: methyl benzimidazol-2-ylcarbamate

CAS: methyl 1*H*-benzimidazol-2-ylcarbamate

Chemical Formula: C<sub>9</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>

CAS#: 10605-21-7

	Component	Content (g/l)
Active ingredient	Carbendazim (98% tech)	511
	Active ingredient	
Co-formulants	W1000	60
	Dispering Agent	
	X101	20
	Wetting Agent	
	J270	2
	Thickening Agent	
	Ethenediol	50
Antifreeze Agent		
	Water	Up to 1 Ltr
	Solvent	

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### SECTION 3 HAZARDS IDENTIFICATION

Skin	Non- irritant, sensitisation dermatitis may occur in persons previously exposed.
Eyes	Non- irritant.
Inhalation	The absorption of carbendazim can possibly have irreversible effects.
Ingestion	The absorption of carbendazim can possibly have irreversible effects.
Other information	--
Physical/chemical effects	--
Environmental effects	Toxic to aquatic organisms.

### SECTION 4 FIRST AID MEASURES

#### Skin contact

Remove all contaminated clothes and shoes. Wash off immediately with soap and plenty of water (15 - 20 minutes). Get medical attention if irritation persists.

#### Eyes contact

Rinse immediately with plenty of water and seek medical advice.

#### Inhalation

Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

#### Ingestion

Remove by gastric lavage and catharsis. Maintain blood pressure and airway. Give oxygen if respiration is depressed. Do not perform gastric lavage if victim is unconscious. Get medical attention immediately.

#### Other information

Treat symptomatically and supportively.

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### SECTION 5 FIRE FIGHTING MEASURES

#### Extinguishing media

Dry chemical, carbon dioxide, halon, water spray or standard foam.

#### Unsuitable extinguishing

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High pressure water jet media.

Special exposure hazards

Do not release chemically contaminated water into drains, soil and surface waters.

Special protective

As for all fires involving chemicals: chemical protection suit, suitable gloves equipment for fire-fighters and boots, and self-contained breathing apparatus.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.

Methods for cleaning up

Do not touch spilled material. Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into containers for later disposal. For small dry spills, with a clean shovel place material into clean, dry containers and cover. Move containers from spill area. For larger spills, dike far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed space.

## SECTION 7 HANDLING AND STORAGE

Handling precautions

Keep product in original tightly closed container; avoid exposure by inhalation; do not get on skin, eyes or clothing; do not eat, drink or smoke when handling; wash hands before eating, drinking or smoking.

Storage

Store in locked, well-ventilated storeroom, away from children and unauthorised personnel, and food and animal feed.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Provide local exhaust or general dilution

Exposure control limits -- **Analytical Chemist: Li Yejuan**

Respiratory protection Wear a suitable mask. **QA manager**

Hand protection Wear rubber or plastic gloves.

Eye protection Wear splash-proof or dust-resistant safety

Skin and body Wear overalls and closed footwear.



**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Form	Viscous liquid.
Colour	White.
Odour	Light.
pH as supplied	6.9 - 7.1 (1% solution)
Boiling point / range	100°C (water based formulation)
Melting point / range	Not applicable.
Flash point	Not applicable, water based formulation.
Flammability	Not flammable.
Auto ignition	--
Oxidising properties	None.
Vapour pressure	--
Density	1.16
Water solubility	Not applicable

**SECTION 10 STABILITY AND REACTIVITY**

## Stability

Stable under normal temperatures and pressures.

## Conditions to avoid

No special precautions other than good housekeeping of chemicals.

## Material to avoid

Alkaline materials can cause hydrolysis.

## Hazardous decomposition

Thermal decomposition products may include toxic oxides of carbon and nitrogen.

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute LD<sub>50</sub> oral rats: > 10 000 mg/kg.

Acute LD<sub>50</sub> dermal rats: > 2 000 mg/kg.

Acute LC<sub>50</sub> inhalation rats (4 h): > 5.9 mg/l (carbendazim).

Eye irritation: Non-irritant.

Skin irritation: Non-irritant.

Skin sensitization: Not determined, but carbendazim is not a sensitiser.

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Carcinogen status: Not carcinogenic.

Mutagenicity: Carbendazim is not mutagenic but phenazines, possible contaminants of the technical material, are mutagenic at very low concentrations.

Reproductive toxicity: Not teratogenic.

ADI (man) mg/kg: 0.03 mg/kg b.w.

## SECTION 12 ECOLOGICAL INFORMATION

N/A

## SECTION 13 DISPOSAL CONSIDERATIONS

Pesticide disposal

Bury in a specially designated landfill (soil burial should suffice, do not contaminate water sources). Always dispose of in accordance with local regulations.

Container disposal

Packaging should be disposed of at a specialised chemical waste disposal facility.

## SECTION 14 TRANSPORT INFORMATION

For TDG classification and proper shipping name, please refer to the product label, the shipping document.

*Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.*

*UN No.3082*

*Class: 9*

*Packing Group: III*

Marine Pollutant cargos

## SECTION 15 REGULATORY INFORMATION

N/A

## SECTION 16 OTHER INFORMATION

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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