

# MATERIAL SAFETY DATA SHEET

## CARBENDAZIM 50% SC

### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Carbendazim 50%SC

Classify: Fungicide

Supplier: Agrohao Company Ltd.

Address: Rm601, No.1, Green Land Technology Square, Lane 58, East Xinjian Road, Shanghai, China

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### 2 INFORMATION ON INGREDIENTS

Active Ingredient: Carbendazim

IUPAC: methyl benzimidazol-2-ylcarbamate

CAS: methyl 1H-benzimidazol-2-ylcarbamate

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

Composition	CAS#	%
Carbendazim	10605-21-7	50
Others	-	Up to100%

### 3 HAZARDS IDENTIFICATION

Skin Non- irritant, sensitisation dermatitis may occur in persons previously

Eyes Non- irritant.

Inhalation The absorption of carbendazim can possibly have irreversible effects.

Ingestion            The absorption of carbendazim can possibly have irreversible effects.

Environmental effects    Toxic to aquatic organisms.

#### 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.

#### 5 FIRE FIGHTING MEASURES

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

Unsuitable extinguishing: High pressure water jet media.

Special exposure hazards: Do not release chemically contaminated water into drains, soil and surface waters.

Special protective: chemical protection suit, suitable gloves equipment for fire-fighters and boots, and self-contained breathing apparatus.

#### 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.

## 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.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Provide local exhaust or general dilution ventilation.
Exposure control limits	--
Respiratory protection	Wear a suitable mask.
Hand protection	Wear rubber or plastic gloves.
Eye protection	Wear splash-proof or dust-resistant safety goggles.
Skin and body	Wear overalls and closed footwear.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Form	Viscous liquid
Colour	OFF-White
Odour	Odourless
pH as supplied	7.1

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

## 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.

## 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.

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.

## 12 ECOLOGICAL INFORMATION

N/A

## 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.

## 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*

## 15 REGULATORY INFORMATION

N/A

## 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.