

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name: Carbendazim 500G/L SC

Other name: /

Recommended use of the chemical Fungicide

and restrictions on use

Supplier name: Shandong Weifang Rainbow Chemical Co., Ltd.

Supplier address: Binhai Economic Development Area, Weifang, Shandong, China

 Supplier phone:
 +86-531-88875222, 88875231

 Supplier fax:
 +86-531-88875232, 88875224

Emergency phone number: +86-531-88875222

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Acute toxicity - Dermal (Category 5)
Acute toxicity - Inhalation (Category 5)

Eye irritation (Category 2B)

Hazardous to the aquatic environment — Acute Hazard (Category 2)

GHS Label elements, including precautionary statements:

No required

Signal word: Warning **Hazard statements:**

H313: May be harmful in contact with skin

H320: Causes eye irritation

H333: May be harmful if inhaled

H401: Toxic to aquatic life.

Precautionary statements:

P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.

P273 Avoid release to the environment.

P302 + P317 IF ON SKIN: Get medical help.

P304 + P317 IF INHALED: Get medical help.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P317 If eye irritation persists: Get medical help.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification:

Not available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Carbendazim	10605-21-7	500G/L
Other ingredients	/	Up to 1L

Product Name: CARBENDAZIM 500G/L SC



4. FIRST - AID MEASURES

Description of necessary first aid measures

Ingestion: Rinse mouth. DO NOT INDUCE VOMITING. Obtain emergency medical attention.

Inhalation: Assure fresh air breathing. Rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect develops.

Eye contact: Rinse immediately with plenty of water. Obtain emergency medical attention if pain, blinking, tears or redness persist.

Advice to doctors: Apply basic aid and decontamination procedures. Treat symptomatically.

Most important symptoms/effects, acute and delayed

Not available

Indication of immediate medical attention and special treatment needed:

Not available.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Water. Foam. Carbon dioxide. Dry chemical. Use extinguishing media appropriate for surrounding fire.

Special hazards arising from the chemical:

High temperature may liberate toxic gases. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

Special protective actions for fire-fighters:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

Environmental precautions:

Notify authorities if product enters sewers or public waters.

Methods and materials for containment and cleaning up:

Clean up any spills as soon as possible, using an absorbent material to collect it.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

Conditions for safe storage, including any incompatibilities:

Store in dry, cool, well-ventilated area. Keep container closed when not in use. Store above -10°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

Use in well ventilated areas. Keep containers closed when not in use.



Personal protective equipment:

RESPIRATORY PROTECTION: Approved dust or mist respirator should be used if airborne particles are generated when handling this material.

SKIN PROTECTION: Gloves.

EYE PROTECTION: Even though no specific eye irritation data is available, wear eye protection appropriate to conditions of use when handling this material.

INGESTION: When using, do not eat, drink or smoke.

INDUSTRIAL HYGIENE: Provide adequate ventilation to minimize dust and/or vapour concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.): Off-white to white flowable Liquid

Odorless Odorless

Odor threshold: No data available

pH: 5.0-8.0

Melting point/freezing point: No data available Initial boiling point and boiling range: No data available Flash point: No data available No data available **Evaporation rate:** Flammability (solid, gas): Not flammable Upper/lower flammability or explosive limits: No data available No data available Vapor pressure: Vapor density: No data available 1.16-1.20 g/ml Relative density: Solubility(ies): Disperse in water Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available **Decomposition temperature:** No data available Viscosity: No data available

10. STABILITY AND REACTIVITY

Reactivity:

Normally stable.

Chemical stability:

Decomposes at m.p.; stable for at least 2 y below 50 °C. Stable after 7 d at 20 000 lux. Slowly decomposed in alkaline solution (22 °C). Stable in acids, forming water-soluble salts

Possibility of hazardous reactions:

Unknown.

Conditions to avoid:

Extreme heat and fire.

Incompatible materials:

Incompatible with alkaline materials.

Hazardous decomposition products:

Non-known.



11. TOXICOLOGICAL INFORMATION

Acute health effects:

Mild irritant Eve irritation Skin irritation Non-irritant Skin sensitization Not sensitizing

Numerical measures of toxicity:

Acute oral LD₅₀: >5000 mg/kg in the rat Acute dermal LD₅₀: >4000 mg/kg in the rat

Acute inhalation LC₅₀: >6.2 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish - 96 hour LC₅₀ >1.0 mg/L Daphnia - 48 hour EC₅₀ 2.16 mg/L Algae – 72 hour EC₅₀ 3.67 mg/L Birds - Acute LD₅₀ >2000 mg/kg Honeybee – Acute oral LD₅₀ >100 µg/bee Earthworm - Acute LD₅₀ 10.4mg/kg

Persistence and degradability:

Soil degradation: Lab studies DT₅₀ range 20-40 days, DT₉₀ range 86-226 days; Field studies DT₅₀ range 11-78 days, DT₉₀ range 36-257 days

Aqueous photolysis DT₅₀ (days) at pH 7: Stable at pH 5 to pH 7, DT₅₀ 22-124 days at pH 9

Aqueous hydrolysis DT₅₀ (days) at 20 °C and pH 7: pH5:>350 days; pH7:>350 days; pH9: 54-124 days, all at 22-25 °C

Bioaccumulative potential:

Carbendazim: $log K_{O/W} = 1.56$

Mobility in the soil:

Carbendazim: medium mobility K_{Foc} 200-246 mL/g.

Other adverse effects:

Not available.

13. DISPOSAL CONSIDERATIONS

Safe handling of waste residues and disposal methods:

Keep out of drains, sewers, ditches and water ways. Recycle if appropriate **PRODUCT DISPOSAL** facilities/equipment available. Burn in special, controlled high temperature incinerator.

Otherwise bury in approved landfill. Follow all local/ regional/ national/ international

regulations.

Emptied packaging may retain product residue. Observe all labelled safeguards until **CONTAINER DISPOSAL**

packaging is destroyed. Store for collection by approved waste disposal service or dispose

of by burying in approved landfill.



14. TRANSPORT INFORMATION

UN Number: 3082

Road Transport ADR/IRD:

Class:9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.N.O.S

Maritime Transport IMDG/IMO:

Class:9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.N.O.S

Marine Pollutant (Y/N): Yes

Air transport IATA/ICAO:

Class:9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.N.O.S

Special/Environmental Precautions: None known.

15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with local laws.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

This version revised in 20250121

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