



# 江苏丰山集团有限公司

## JIANGSU FENGSHAN GROUP CO., LTD.

### MATERIAL SAFETY DATA SHEET

#### 1 Manufacturer/information service:

Supplier: JIANGSU FENGSHAN GROUP CO., LTD.

Address: Caomiao Town, Dafeng City, Jiangsu Province, China.

Tel: +86-515-83374837

Fax: +86-515-83372403

Product name: Carbendazim 98%TC

#### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Carbendazim	52315-07-8	98%
Other ingredients (secret)	(secret)	2.0

#### 3 Hazards Identification

- Carbendazim is very rapidly absorbed and eliminated from the body.
- Carbendazim is NOT a cholinesterase inhibitor.
- Harmful if absorbed through skin or inhaled.
- Avoid breathing product vapors or spray mist.
- Avoid contact with eyes, skin or clothing.

#### 4. First Aid Measures

Inhalation: If inhaled, remove to fresh air and keep at rest. Obtain medical advice if worried.

Skin contact: Carefully remove contaminated clothing. Wash affected areas with fluid water.

Seek medical aid if at all worried.

Eye contact: Rinse eyes immediately with clean water for at least 15 minutes and medical aid.

Ingestion: Wash out mouth with water. Do not induce vomiting. Keep patient at rest seek medical advice as above.

Symptoms: The following symptoms may occur: Local – No skin and eye irritation.

Systemic – none documented over many years' experience.

#### 5. Fire-Fighting Measures

Extinguishing media: Water spray, foam, dry agent, carbon dioxide

Hazards from combustion products:

Oxides of carbon and nitrogen may be given off when exposed to extreme heat or fire.

Precautions for fire fighters:

Firefighters should wear full protective gear, including self-contained breathing apparatus . If



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possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water. Dispose of fire control water or other extinguishing agent and spillage later.

### 6. Accidental Release Measures

Avoid contact with the spilled material or contaminated surfaces. When dealing with spills do not eat, drink or smoke and wear personal protective clothing and equipment PERSONAL PROTECTION section below. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. Neutralizing chemicals are not required.

### 7. Handling And Storage

Handling: Keep out of reach of children. Avoid contact with the eyes and skin.

Storage: Store in the closed, original container in a dry, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, animal feed, seed and fertilizers. Store below 40°C. Protect from frost.

### 8. Exposure Controls / Personal Protection

Exposure standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission for the product or its ingredients. The exposure standard for carbendazim set is 0.5 mg/m<sup>3</sup>.

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation during manufacture. Use in a well-ventilated area only.

Personal Protective Equipment: To avoid eye and skin contact, wearing the following personal protective clothing and equipment is recommended:

Eyes: Safety goggles or face shield

Clothing: Cotton overalls buttoned to the neck and wrist and a washable hat

Gloves: Elbow length PVC gloves

Respiratory: Respiratory protection is not normally required. If airborne concentrations are likely to exceed the exposure standard above

### 9. Physical And Chemical Properties

Form Crystalline powder.



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Density: 1.45 (20 °C)

Water Solubility: in water 8 mg/l (pH 7),

Melting Point: 302-307 °C

### 10.Stability And Reactivity

CHEMICAL STABILITY: stable for at least 2 y below 50°C.

CONDITIONS TO AVOID: Extreme heat and fire.

INCOMPATIBILITY WITH OTHER MATERIALS: incompatible with alkaline materials.

HAZARDOUS POLYMERIZATION: Non-known.

### 11.Toxicological Information

Oral Acute oral LD50 for rats >15 000, dogs >2500 mg/kg.

Skin and eye Acute percutaneous LD50 for rabbits >10 000, rats >2000 mg/kg.

Non-irritating to skin and eyes (rabbits). Not a skin sensitiser (guinea pigs).

Inhalation LC50 (4 h) for rats, rabbits, guinea pigs or cats, no effect with suspension (10 g/l water).

### 12.Ecological And Ecotoxicological Information

Birds Acute oral LD50 for quail 5826-15 595 mg/kg.

Fish LC50 (96 h) for carp 0.61, rainbow trout 0.83, bluegill sunfish >17.25, guppy >8 mg/l.

Daphnia LC50 (48 h) 0.13-0.22 mg/l.

Algae EC50 (72 h) for Scenedesmus subspicatus 419, Selenastrum capricornutum 1.3 mg/l.

Bees LD50 (contact) >50ug/bee.

Worms LC50 (4 w) for Eisenia foetida 6 mg/kg soil.

### 13.Disposal Considerations

WASTE: Pesticide wastes are toxic and hazardous. Dispose of in accordance with applicable and local laws and regulations. Do not discharge or pour into soil, drainage system or bodies of water.

CONTAINER: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning (plastic containers). If burned, stay out of smoke.

### 14.Transport Information

UN NUMBER:

3077

### 15.Regulatory Information

Risk Symbols

N: Dangerous for the environment



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### Risk Phrases

R46: May cause heritable genetic damage.

R50: Very toxic to aquatic organisms.

R53: May cause long-term adverse effects in the aquatic environment.

R60: May impair fertility.

R61: May cause harm to the unborn child.

### **16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.