

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Carbendazim

PRODUCT NUMBER: C1888

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only

1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H340 – Germ cell mutagenicity (Category 1B)

H360 – Reproductive toxicity (Category 1B)

H400 – Acute aquatic toxicity (Category 1)

H410 – Chronic aquatic toxicity (Category 1)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: Danger

Hazard Statements:

H340 – May cause genetic defects.

H360FD - May damage fertility. Suspected of

damaging the unborn child.

H410 - Very toxic to aquatic life with long lasting

effects.

Precautionary Statements:

P101 – If medical advice is needed, have product container or label at hand.

P201 – Obtain special instructions before use.

P273 – Avoid release to the environment.

P308 + P313 – If Exposed or concerned: Get medical advice/attention.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Methyl benzimidazol-2-ylcarbamate; BCM; Methyl 2-benzimidazolecarbamate

CAS No.: 10605-21-7Formula: $C_9H_9N_3O_2$

Molecular Weight: 191.19

EC No.: 234-232-0

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Ingredient	CAS Number	Percent	Hazardous	
Carbendazim	10605-21-7	~ 97%	No exposure limits established by OSHA or ACGIH	

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

Route of Entry Symptoms First Aid Procedures Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. **Eye Contact** Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to May cause redness, tearing, or blurred vision. ensure thorough rinsing. Get medical attention if irritation persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash itching or inflammation. contaminated clothing. Get medical attention if irritation

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon oxides, nitrogen oxides (NOx)

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

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Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: 2 to 6 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-White to Beige Powder

pH: No data available Soluble in HCl Solubility: $> 300 \, {}^{\circ}\text{C} (>572 \, {}^{\circ}\text{F})$ Melting Point: Vapor Density: No data available No data available Vapor Pressure: Odor: No data available Odor Threshold: No data available Viscosity: No data available

Evaporation Rate: No data available

No data available

Initial Boiling Point and

Relative Density:

Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Moisture

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

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Toxicity: LD_{50} (Oral-Rat)(mg/Kg): 6,400 mg/Kg

LD₅₀ (Oral-Mouse)(mg/Kg): No data available

LD₅₀ (Oral-Rabbit)(mg/Kg): 8,500 mg/Kg

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: May cause reproductive disorders.

May cause congenital malformation in the fetus.

Symptoms Associated with

Overexposure:

Irritation, sneezing, gastrointestinal upset

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions

None identified

Aggravated By Exposure:

Routes of Entry: Inhalation
NIOSH/RTECS NO: DD6500000□

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: LC50 - rainbow trout - 0.3 mg/L - 96 hrs

EC50 - water flea - 0.01 - 0.04 mg/L - 48 hrs

Persistence and Degradability: No data available

Bioaccumulative Potential: Bioconcentration factor (BCF): 17

Mobility in Soil: No data available

Other Adverse Effects: Very toxic to aquatic life.

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A UN/NA: N/A

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Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

TSCA:

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Chronic Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS NO.: 10605-21-7 Methyl benzimidazol-2-ylcarbamate

New Jersey Right to Know Components: CAS NO.: 10605-21-7 Methyl benzimidazol-2-ylcarbamate

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
0	*	0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
0	0	0	

^{*}Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

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