



SAFETY DATA SHEET

MBC 500 FLO

Date of Issue: 10 June 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Carbendazim

Recommended use: Fungicide

Supplier: UPL New Zealand Limited
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325
www.upl-ltd.com/nz

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

GHS Pictograms:



Hazard Classification: 6.6A, 6.8A, 6.9B, 9.1A, 9.2B
Any person purchasing, handling or disposing of this product must be suitably qualified

Required identification Details: **DANGER**
Keep out of reach of Children.
Read label before use.
May cause genetic defects.
May damage fertility or the unborn child.
May cause liver damage through prolonged or repeated exposure.
Very toxic to aquatic life.
Toxic to the soil environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Carbendazim	10605-21-7	50

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin contact:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

Notes to a physician:

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Fog, foam, dry chemical, CO₂, water

Hazardous thermal (de)composition products:

Can give off carbon monoxide and nitrogen oxides in a fire

HAZCHEM Code:

2XE

Protection of fire-fighters:

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear suitable protective equipment.

Environmental precautions:

Contain spill, do not allow material to enter sewers or bodies of water. Keep unprotected persons and animals out of the area.

Methods for cleaning up:

Absorb on inert material such as sand, earth, vermiculite. Collect up for disposal.

Dam up. Large spills should be collected mechanically (remove by pumping) for disposal.

Pump excess material into suitable container Metal drums, metal tank etc.).

Dispose of/clean up in accordance with local regulations.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with eyes, skin and clothing.

Use with adequate ventilation.

Storage:

Store in original container, tightly closed in a locked, dry, well ventilated place away from food or feedstuffs.

Packaging materials:

HDPE Plastic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Exposure Standards: Not established.

Engineering measures

Exposure control measures: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours at a low level.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:

In case of insufficient ventilation, wear suitable respiratory equipment.

Skin and body:

Impervious clothing.

Hands:

Impervious gloves.

Eyes:

Safety goggles or face shield.

General hygiene:

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour.

White to grey, practically odourless liquid.

pH:

6.0 to 8.0

Vapour Pressure:

0.09 mpa (a.i)

Boiling Point:

Weighted average: 111.53°C.

Flash Point:

Not flammable

Freezing/melting point:

May start to solidify at 0°C.

Solubility:

Soluble in water, methanol, diethyl ether, acetone

Specific Gravity:

1.168

Density:

Information for flammable material:

Not flammable

Viscosity:

Octanol/water partition coefficient:

Very slightly soluble in n-octanol.

Explosive Properties:

Not explosive.

Oxidation Properties:

Not an oxidizing agent.

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of use.

Conditions to avoid:

Excessive heat.

Materials to avoid:

Incompatible with alkaline materials.

Hazardous Decomposition

Products:

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

Hazardous polymerization:

Does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral:

LD₅₀ (Rat): >10,000 mg/kg

Acute toxicity - Dermal:

LD₅₀ (Rabbit): > 5,000 mg/kg

Acute toxicity – Inhalation:

LC₅₀ (Rat): > 5.40 mg/L

Skin irritation:

Slightly irritating (rabbit)

Eye irritation:

Slightly irritating (rabbit)

Sensitization:

Did not cause sensitization on laboratory animals (guinea pig).

Chronic toxicity

Studies indicate that reproductive and teratogenic effects in humans are unlikely at expected exposure levels

Carcinogenicity:

Mutagenicity:

May cause heritable mutations in human cells.

Reproduction toxicity:

May damage fertility or unborn children from repeated oral exposure.

Specific target organ toxicant:

May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION

Information presented in this section relates to the active ingredient.

Aquatic

LC₅₀ (96h) = 0.83 mg/litre (*Oncorhynchus mykiss*- Rainbow trout).

LC₅₀ (96h) = 0.61 mg/litre (carp).

Toxicity to Daphnia and other aquatic invertebrates:

Toxicity to fish (Chronic toxicity):

Bioaccumulation:

No data available.

Degradability:

Soil half-life is 8 -32 days.

Mobility:

No data available.

Other adverse effects:

Low toxicity to birds LD 50 >5,000mg/kg (Bobwhite quail).

EEL established: 0.00014 Water (carbendazim a.i.)

13. DISPOSAL CONSIDERATIONS

Methods of disposal:



Waste from residues: Dispose of in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.

Container disposal: Triple rinse container and add recycle through the Agrecovery Programme. If this is not possible, bury in landfill.

Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

14. TRANSPORT INFORMATION - International transport regulations

UN number:

UN3082

Class or Division:

9

Subsidiary Class:

NA

Packing Group:

III

Marine Pollutant:

Yes

Proper shipping name:

Environmentally Hazardous Substance, Liquid, N.O.S (CARBENDAZIM)

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

15. REGULATORY INFORMATION

ACVM Registered Number: P005447
HSNO Approval Code: HSR000453

16. OTHER INFORMATION

Additional information: **Original Issue Date:** 22 December 2005
Revision Date: 10 June 2021
Replaces: ES409

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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