

SAFETY DATA SHEET

CARBENZ

Date of Issue: 11th July 2018

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Carbendazim

Recommended use: Fungicide

Supplier: Agrisource 2000 Limited
45 Kitchener Road
Pukekohe
Phone: 09 237 0422

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classifications: 6.6A, 6.8A, 6.9B, 9.1A, 9.2B

Required identification Details:

**HARMFUL – KEEP OUT OF THE REACH OF CHILDREN
ECOTOXIC**

6.6A: **Toxic - may cause mutations in cells.**

6.8A: **Toxic - may cause reproductive damage from repeated oral exposure.**

6.9B: **Toxic - may cause liver damage from repeated oral exposure at high doses.**

9.1A: **Toxic to aquatic organisms with long lasting effects.**

9.2B: **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%
Inert ingredients		50%

4. FIRST-AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. **Phone 0800 764 766, (0800 POISON).**

Effects and symptoms:

The acute toxicity of this product is low, but it may be harmful if a large amount is swallowed. May irritate eyes. May irritate skin. The dermal toxicity of this product is low.

However, skin contact should be avoided. This product is not a skin sensitiser. May be a slight respiratory irritant.

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.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

2XE

Extinguishing Media:

Water spray, fog, foam, dry chemical, Carbon dioxide, sand.

Fire Hazard Properties:

Can give off carbon monoxide and nitrogen oxides in a fire.

Protection of fire-fighters:

Wear protective clothing and self contained breathing apparatus. Do not breath smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Environmental precautions:

Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Methods for cleaning up:

In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of drummed wastes in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE

Handling:

When mixing or applying, avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
Packaging materials:	HDPE Plastic drum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards: No exposure limit allocated.

**Exposure Standards outside:
The workplace:** No exposure standards have been set for this product or the active ingredients.

Engineering measures

Exposure control measures: Ensure ventilation is adequate, generally natural ventilation is adequate.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:	Where insufficient ventilation, use suitable respiratory protection.
Skin and body:	When opening the container, preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.
Hands:	Elbow-length and PVC gloves
Eyes:	Wear chemical goggles or face shield.
General hygiene:	Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	White/grey
Odour:	Practically odourless
pH:	6.0 to 8.0
Boiling Point:	>100°C
Freezing/melting point:	May start to solidify at 0°C
Solubility:	Soluble in water, methanol, diethyl ether, acetone.
Specific gravity or density:	Approx. 1.168
Flashpoint:	Not Flammable.
Octanol/water partition coefficient:	Slightly soluble in n-octanol.
Explosion properties:	Not an explosive
Oxidation properties:	Not an oxidizer

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Conditions to avoid:	Extreme heat or Cold.
Materials to avoid:	Alkaline materials.
Hazardous decomposition Products:	Oxides of carbon and nitrogen may be given off when exposed to extreme heat or fire.
Hazardous reactions:	None expected.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD50 > 10,000 mg/kg (Rat)
Acute toxicity - Dermal :	LD50 > 5,000 mg/kg (Rabbit)
Acute toxicity – Inhalation	LC50 > 5.40 mg/litre (Rat)
Skin irritation :	Non-irritant (rabbit) (similar product)
Eye irritation:	Slightly irritating Species: Rabbit
Sensitization :	Non sensitising Species: Guinea pig
Chronic toxicity	Studies indicate that reproductive and teratogenic effects in humans are unlikely at expected exposure levels. Danger - may cause heritable mutations in human cells. Danger - may damage fertility or unborn children from repeated oral exposure. Danger - may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION

Fish toxicity:	Very toxic to aquatic organisms LC 50 = 0.83 mg/litre ,96 hr (Rainbow trout), 0.61 mg/litre,96hr (Carp)
Bird toxicity:	Low toxicity to birds LD 50 >5,000mg/kg (Bobwhite quail)
Bee toxicity:	Non toxic to bees/terrestrial invertebrates.
Earthworm toxicity:	
Soil, Water, Air:	Soil half life is 8-32 days.

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.
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CONTAINER DISPOSAL: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

14. TRANSPORT INFORMATION - International transport regulations

UN number:	3082
Class:	9
Packing Group:	III
Marine Pollutant:	Yes
Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (Contains 80% carbendazim)
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

ACVM Registered Number:	P8219 (See www.nzfsa.govt.nz/acvm for registration Conditions).
HSNO Approval Code:	HSR000453 (See www.ermanz.govt.nz for controls).
Approved Handler:	This product must be under the personal control of an approved handler or secured.
Tracking:	Not required.

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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