SAFETY DATA SHEET

Elliott Technologies ltd

MBC 800 WDG

Date of Issue: 22 December 2005

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): **carbendazim**

Recommended use: **Fungicide**

Supplier: **Elliott Technologies Limited**
45 Kitchener Road
Pukekohe
Phone 0800 100 325

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

2. HAZARDS IDENTIFICATION

Hazard Classification: **Toxic - 6.6A, 6.8A, 6.9B,**
Ecotoxic - 9.1A, 9.2B
Approved Handler Applies

Required identification Details: **HARMFUL – KEEP OUT OF REACH OF CHILDREN**
ECOTOXIC

TOXIC – frequent exposure at high doses may cause heritable mutations/genetic defects.
Repeated oral exposure at high doses may cause reproductive/ development damage or may damage fertility of the unborn child.
HARMFUL – Repeated oral exposure at high doses is believed to cause liver damage.

Toxic to aquatic life. Toxic to fish,
Toxic to the soil environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Carbendazim	10605-21-7	800 g / kg (80%)

4. FIRST-AID MEASURES

Description of necessary first aid measures:
Effects and symptoms

First-aid measures	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.
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

HAZCHEM Code:	2XE
Extinguishing media :	Fog, foam, dry chemical,CO_2,water.
Hazardous thermal (de)composition products:	Can give off carbon monoxide and nitrogen oxides in a fire
Protection of fire-fighters:	Wear full protective clothing and self contained breathing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear protective clothing as prescribed in section 8.
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:	Soak up with sand, sawdust or other absorbent material, shovel or sweep up and bury in an approved landfill.

7. HANDLING AND STORAGE

Handling:	Keep away from sparks, heat and flames. Keep out of reach of children and animals.
Storage:	Store in original container, tightly closed in a locked, dry, well

ventilated place away from food or feedstuffs.

Packaging materials:

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 vapors at a low level.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system: Respiratory protection not normally required.
If airborne concentrations are likely to be excessive, wear an approved respirator.

Skin and body: Cotton overalls buttoned to the neck and wrist and a washable hat.

Hands: Wear elbow length PVC 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 gloves, goggles or face shield and contaminated clothing.

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: The lowest known value is 100°C (Water). Weighted average: 111.53°C
Freezing/melting point: May start to solidify at 0°C (32°F).
Solubility: Soluble in water, methanol, diethyl ether, acetone.
Specific gravity or density: 1.168
Information for flammable material: Not Flammable
Flashpoint: Not Flammable
Octanol/water partition coefficient: Very slightly soluble in n-octanol.
Explosion properties: Not Explosive
Oxidation properties: Not an Oxidising 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:	Will not polymerise.
Specific Data:	
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 :	Slightly irritating Species: Rabbit
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.

Other information :

12. ECOLOGICAL INFORMATION

Ecotoxicity	**[Data relates to active ingredient]** Soil half life is 8-32 days. Toxic to the soil environment. Very toxic to aquatic organisms LC 50 = 0.83 mg/litre ,96 hr (Rainbow trout), 0.61 mg/litre,96hr (Carp) Low toxicity to birds LD 50 >5,000mg/kg (Bobwhite quail) Non toxic to bees/terrestrial invertebrates.
E.E.L	0.00014 Water (carbendazim a.i.)
T.E.L	Not Established

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Triple rinse container and add to spray tank, burn if circumstances, particularly wind direction, permit, otherwise crush and bury in an approved landfill. Do not contaminate bodies of water with chemical or empty container.

14. TRANSPORT INFORMATION - International transport regulations

UN number:	**3077**

Class or Division:	9
Packing Group:	III
Marine Pollutant:	YES
Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID ,N.O.S. (Contains 80% carbendazim)

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

15. REGULATORY INFORMATION

ACVM Registered Number:	P5818
HSNO Approval Code:	HSR000455

16. OTHER INFORMATION

Additional information:

Original Issue Date: 22nd December 2005
Revision Date: N/A
Replaces: N/A

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