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## MATERIAL SAFETY DATA SHEET

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### COVER 76WP

#### SECTION 1 Chemical product and Company identification

Product Name: Cymoxanil+ propineb 76% WP  
Chemical Family: Mixture of fungicides  
Chemical name: 1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea;  
polymeric zinc propylenebis(dithiocarbamate)  
Formula:  $C_7H_{10}N_4O_3; (C_5H_8N_2S_4Zn)_x$   
Product Use: Commercial fungicides  
Manufacturer: WEMAX AGRO LIMITED

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#### SECTION 2 Composition/Information on Ingredients

Product Name	Wt. %	CAS RN
Cymoxanil	6	57966-95-7
propineb	70	12071-83-9

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#### SECTION 3 Hazards Identification

**Toxicity class:**

WHO (cymoxanil a.i & propineb a.i.): III

A low toxicity fungicide.

**Likely routes of exposure:**

Skin and eye contact. Slightly hazardous by ingestion.

**Environmental Hazard:**

Product is very toxic to fish and aquatic organisms.

**Eye contact:** Mild irritant. Product may pose a slight risk of serious damage to eyes, due to inert.

**Skin contact:**

Minimally toxic and prolonged skin contact can cause possible skin irritation. Mild irritant.

**Ingestion:**

Minimally toxic.

**Inhalation:**

Inhalation of the dust may be irritating to the nose, throat and lungs.

**Delayed effects:**

At high levels propineb has caused hindleg paralysis in test animals and an increased incidence of retinal degeneration. It has caused thyroid tumours and birth defects in test animals, resulting from ethylenethiourea (ETU) formation. ETU, a trace contaminant and breakdown product of propineb, primarily affects the thyroid and liver. It has also caused other endocrine and blood effects, tumours and birth defects in test animals.

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## SECTION 4 First Aid Measures

### **Inhalation:**

Move the victim to fresh air or remove source of contamination. Monitor for respiratory distress. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Administration of oxygen should be performed by qualified personnel. Get medical attention immediately if necessary.

### **Skin contact:**

Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice. Persons who become sensitized may require specialized medical management with anti-inflammatory agents or cortisonecontaining emulsions.

### **Eye contact:**

Immediately flush the contaminated eyes with gently flowing lukewarm water for 15 to 20 minutes, occasionally lifting the upper and lower lids. If irritation persists, seek medical advice.

### **Ingestion:**

Seek medical advice immediately. Do not induce vomiting without medical advice. Give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Administration of gastric lavage or oxygen should be performed by qualified medical personnel.

### **Advice to physician:**

No specific antidotes are available. Treat supportively and symptomatically. If a large amount has been ingested in the last few hours, and if copious vomiting has not already occurred, the stomach must be emptied and steps taken to limit gastrointestinal absorption. If the patient is fully alert and nervous system depression is not anticipated, oral administration of Syrup of Ipecac is probably the best way to empty the stomach

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## SECTION 5 Fire Fighting Measures

### **Fire and explosion hazard:**

Slight fire hazard when exposed to heat or flame. Dust-air mixtures may ignite or explode.

### **Special Hazards:**

Combustion products are toxic and/or irritant.

### **Hazardous Combustion Products:**

Combustion/fire generates products of hydrogen sulfide, carbon dioxide, carbon monoxide, nitrogenoxides, sulfur dioxide and carbon disulfide.

### **Extinguishing agents:**

Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock. Do not use direct jet of water.

Avoid water coming in contact with the product. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

**Fire fighting:**

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind.

Use a recommended extinguishing agent for the type of surrounding fire.

Fight fire from maximum distance and use unmanned hose holder or monitor nozzles.

Contain fire control agents for later disposal. Avoid inhaling hazardous vapours. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways. Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

**Personal protective equipment:**

Fire-fighters and others that may be exposed should wear full chemical protective clothing and self-contained breathing apparatus. See section 8 for recommendations regarding

Exposure Controls/Personal Protection. Fire may produce irritating or poisonous vapours (toxic oxides of carbon, nitrogen and sulphur) of combustion.

**Procedures:**

Transfer spilled material to suitable containers for recovery or disposal. Keep dust to a minimum. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

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**SECTION 6 Accidental release measures****Personal precautions:**

Do not breathe in dust or fumes. Avoid contact with skin and eyes. For personal protection see Section 8 and see section 4 regarding First Aid Measures when exposed to material during clean-up operations.

**Environmental precautions:**

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

**Occupational spill:**

Remove all sources of flames and sparks. For dry spills, shovel up and sweep up with damp earth or sand or other suitable absorbents, taking care not to raise a dust cloud. Place the material into a labelled, clean, dry container and cover for subsequent disposal; and store in a safe place to

await proper disposal. All contaminated cleaning materials should be placed in closable receptacles.

In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Do not contaminate water while cleaning equipment or disposing of wastes. Keep spectators away and upwind.

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## SECTION 7 Handling and storage

### **Handling:**

Wear appropriate protective equipment when handling the product. Do not handle material near food, feed or drinking water. Avoid contact with eyes, prolonged contact with skin, and inhalation of dust and vapour. Avoid high concentrations of dust in air and accumulation of dust on equipment. An airborne dust of this material can create a dust explosion. Use with adequate ventilation to control

dust and reduce exposure to vapours. Protect all equipment from explosions.

Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination. Local regulations should be complied with.

### **Storage:**

Store the product in its original labelled container in cool, dry, well-ventilated area, away from heat, sparks and other sources of ignition. No smoking is allowed. Protect the product from temperatures below 00C and above 490C. Product is combustible, do not ignite. Do not allow the product to become wet or overheated in storage, decomposition, impaired activity or fire may result. Check for hot containers and immediately remove to open areas for disposal. Do not store next to food, feed and water supplies. Keep out of reach of unauthorized persons, children and animals. Avoid breaking the containers, spillage or leaks. Comply with the local regulations.

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## SECTION 8 Exposure controls/Personal protection

Provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

### **PERSONAL PROTECTIVE EQUIPMENT:**

#### **Respirator:**

Wear an approved full-face respirator suitable for protection from dusts and mists of pesticides is required. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

#### **Clothing:**

Wear appropriate chemical-resistant protective clothing or other impervious clothing. Wear boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing. Wash clothing after use.

#### **Gloves:**

Wear appropriate chemical-resistant protective gloves whenever the product is handled to prevent contact with this substance. Wash gloves after use.

**Eye protection:**

Use safety goggles and face-shield which is compatible with respiratory equipment.

**Emergency eye wash:** Where there is any possibility that an employee's eyes may be exposed to this substance, an eye wash fountain or appropriate alternative within the immediate work area for emergency use, must be provided.

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**SECTION 9 Physical & Chemical properties**

**Appearance:** Light grey homogeneous fine wettable powder.

**Odour:** Chemical odour.

**Explosive properties:** Dust-air mixtures may explode when in contact with moist.

**Flash point:** Not highly flammable

**Combustible.** Combustible.

**pH:** 8.4 (1% aqueous solution)

**Solubility in water:** Wettable powder – miscible in water.

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**SECTION 10 Stability & Reactivity****Stability:**

Considered stable in unopened original packages, under normal, dry storage conditions.

Reacts with acids and oxidizing agents.

**Storage stability:**

Stable for 2 years under normal, dry storage conditions in unopened packages.

**Incompatibility:**

Avoid contact with oxidizing agents and acids. Keep away from moisture, heat or flame.

Compatible with most commonly used fungicides and insecticides, used at recommended rates. Always perform a compatibility test before using with other products. Do not physically mix concentrate directly with other pesticide concentrates, always dilute first.

**Thermal decomposition:**

May yield toxic oxides of carbon, nitrogen and sulphur. Avoid temperatures above 49 OC.

**Hazardous decomposition products:**

Products of hydrogen sulphide, carbon dioxide, carbon monoxide, nitrogen oxides, sulphur dioxide and carbon disulfide form on heating. During processing, dust may form explosive mixture in air. Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.

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**SECTION 11 Toxicological Information****Acute Toxicity /Irritation Studies**

Acute Oral LD50: > 2500 mg/kg (rat)

Acute Dermal LD50: > 5000 mg/kg (rabbit)

Inhalation, 4 hr LC50: >5.08mg/L

Eye Irritation: Non irritation.

Skin Irritation: Non irritation.

Sensitization: not a skin sensitizer.

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### **SECTION 12 Ecological Information**

Bird: Acute oral LD<sub>50</sub> for mallard ducks and bobwhite quail >5000 mg/kg.

Fish: the 96h LC<sub>50</sub> for cap is as 137 mg/L; for rainbow trout > 1.82mg/lt

Bee: LD<sub>50</sub> for honeybees >0.1mg/lt.

Daphnia: EC<sub>50</sub> for *Daphnia magna* is 5.92 mg/l

Algae: EC<sub>50</sub> to the algae is approximately 4.5 mg/1.

Earthworm: LC<sub>50</sub> (14 d) for earthworms > 1500 mg/kg.

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### **SECTION 13 Disposal Considerations**

#### **Pesticide disposal:**

Open dumping or burning of this pesticide is prohibited Waste resulting from the use of this product that cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

#### **Package product wastes:**

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. Empty the container of excess product into the container of the applicator. Destroy the emptied containers by perforation and flattening. Bury in an approved, designated landfill. Do not re-use the empty container for any other purpose. Do not burn the empty container.

Comply with any local legislation applying to disposal.

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### **SECTION 14 Transport Information**

**UN NUMBER: 3077**

**ADR/IRD:**

Class: 9

Substance ID no.: 3077

Hazard ID no.: 90

Label: 9

ITEM: 12(c)

TREM-CARD: 90G02-B

Shipping Name: Environmentally hazardous substance, solid, n.o.s. 9, 12(c), ADR

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### **SECTION 15 Regulatory Information**

**HMIS RATINGS:**

Health: 1

Flammability: 1

Reactivity: 1

Personal protection: E

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