

Power 76WP™

MATERIAL SAFETY DATA SHEET

SECTION 1 Chemical product and Company identification

Product Name: Power 76WP™ (Cymoxanil + Propineb)

Chemical name:

- *Cymoxanil:* 1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea
- *Propineb:* Zinc-1-methylethylenbisdithiocarbamat

Formula:

- *Cymoxanil:* C7H10N4O
- *Propineb:* C5H8N2S4Zn

Product Use: Commercial Fungicide

Supplier: SINERIA HOLLAND BV

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SECTION 2 Composition/Information on Ingredients

<u>Product Name</u>	<u>Quantity (%)</u>	<u>CAS NR</u>
Cymoxanil	6%	57966-95-7
Propineb	70%	12071-83-9

SECTION 3 Hazards Identification

- This product is unlikely to present a toxicity hazard during normal use.

- WHO Classification: III (Low toxicity fungicide)

Likely routes of exposure: Skin and eye contact. Slightly hazardous by ingestion.

Environmental Hazard: This product is very toxic to fish and aquatic organisms.

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

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

Ingestion: Minimally toxic.

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

Delayed effects: At high levels propineb has caused hind-leg 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.

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 position. 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 cortisone containing 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

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.

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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.

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) must 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.

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

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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 labeled 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 0°C and above 49°C. This product is combustible but 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.

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.

SECTION 9 Physical & Chemical properties

Appearance: Light grey homogeneous fine wettable powder.

Odour: Chemical odour.

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

Flash point: Not highly flammable

Combustibility: Combustible.

pH: 8.4 (1% aqueous solution)

Solubility in water: Wettable powder – miscible in water.

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°C.

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.

SECTION 11 Toxicological Information

Acute Toxicity /Irritation Studies

Ingestion: Acute oral LD₅₀ >3000 mg/kg

Dermal: Acute percutaneous LD₅₀ >5000 mg/kg

Inhalation: Acute inhalation LC₅₀ >5.14 mg/l

Eye Contact: No Irritating

Skin Contact: No Irritating

SECTION 12 Ecological Information

- This product is toxic to fish and aquatic invertebrates.

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- For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Dispose of all excess treated seed-pieces and seed packaging by burial away from bodies of water.
- Cymoxanil: LC₅₀ (96 h) for rainbow trout 61 mg/L.

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.

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

SECTION 15 Regulatory Information

HMIS RATINGS

Health: 1

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Flammability: 1

Reactivity: 1

Personal protection: E

SECTION 16 Other Information

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for use with other materials or in processes other than those specifically described herein.

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