

## SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Product Name:** Kendizol 250 EC Fungicide  
**Company Name:** Kenso Corporation (M) Sdn Bhd  
**Address:** 2 Bond Crescent, Forrest Hill,  
Auckland 0620 New Zealand  
**Telephone Number:** (09) 410 0861  
**Emergency Telephone Number:** 0800 CHEMCALL (0800 243 622)  
**National Poisons & Hazchem Information Centre :** 0800 POISON (0800 764 766)  
**Use:** For the control of Leaf Spots on Carrots, Ring Spot on horticultural Brassicas, Early Blight on Potatoes and Stemphylium Leaf Spot on Asparagus.

### SECTION 2 – HAZARDS IDENTIFICATION

**Hazard classification:** 3.1D, 6.1E, 6.3A, 6.4A, 6.8A, 6.9B, 9.1A, 9.3C  
**Priority Identifier:** WARNING  
KEEP OUT OF REACH OF CHILDREN  
**Secondary Identifiers:** 3.1D = Combustible liquid  
6.1E = May be harmful if swallowed  
6.3A = Cause skin irritation  
6.4A = Cause eye irritation  
6.8A = Toxic – may cause reproductive/development damage from repeated oral exposure.  
6.9B = May cause reproductive/development damage from repeated oral exposure at high doses.  
9.1A = Very toxic to aquatic organisms  
9.3C = Harmful to terrestrial vertebrates

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Difenoconazole	119446-68-3	25 % w/v
Inert ingredients	secret	<10 % w/w
Hydrocarbon solvent	64742-94-5	To 100%

### SECTION 4 – FIRST AID MEASURES

<b>Swallowed</b>	If swallowed, DO NOT induce vomiting. Seek medical advice or contact Poisons Information Centre 0800 764 766
<b>Eye</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.
<b>Skin</b>	Remove contaminated clothing and launder before reuse. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
<b>Inhaled</b>	Remove to fresh air until recovered. If symptoms persist, seek medical advice.

**Advice to Doctor**  
Treat symptomatically.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion Hazards:</b>	This product is classified as a combustible product. There is little risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
<b>Extinguishing Media:</b>	Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.
<b>Fire Fighting:</b>	When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus. Do not scatter spilled material with high pressure water jets.
<b>Flash point:</b>	Not flammable.
<b>Upper Flammability Limit:</b>	No data.
<b>Lower Flammability Limit:</b>	No data.
<b>Autoignition temperature:</b>	No data.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Spills and Disposal

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Collect in sealed containers for disposal. The product is a herbicide and spills must be contained. The product is relatively toxic to fish and hence should be kept from entering water bodies. Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose off in landfill in accordance with local regulations. On-site disposal off concentrate is not acceptable.

## SECTION 7 – HANDLING AND STORAGE

Store in the original container, tightly closed, away from food, seeds, fertilisers and pesticides. Keep out of reach of children. After handling, remove protective clothing and equipment, wash hands before eating, drinking, chewing gum, smoking or using toilet. See product label for further handling and storage precautions.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### National Exposure Standards

The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m<sup>3</sup>; 15ppm TWA, as total hydrocarbon. NOHSC has set the following exposure standard for N-methyl pyrrolidone : TLV (TWA) 103 mg/m<sup>3</sup>, STEL 309 mg/m<sup>3</sup>. SK 'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

### Engineering Controls

No special requirements. Product is used outdoors. Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

### Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear chemical resistant coveralls, elbow-length nitrile or PVC gloves, eye protection and respiratory protection to a minimum level of Organic Vapour filter cartridges. and goggles.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid
<b>Colour:</b>	Yellow
<b>Odour:</b>	Aromatic odour
<b>Specific Gravity:</b>	1.020
<b>Vapour Pressure:</b>	NA
<b>Flammability Limits:</b>	combustible liquid
<b>Solubility</b>	Emulsify in water

## SECTION 10 – STABILITY AND REACTIVITY

### **Chemical Stability**

Stable under normal conditions.

### **Hazardous Reactions**

Keep away from strong oxidising agents.

### **Hazardous Polymerization**

Hazardous polymerisation is not possible.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### **Toxicology Information**

No harmful effects are expected if the precautions on the label and this SDS are followed.

**Acute Toxicity – Oral**                      LD<sub>50</sub> (rat) ca 2,500 mg/kg for Difenoconazole

**Acute Toxicity – Dermal**                LD<sub>50</sub> (rabbit) >2,000 mg/kg for Difenoconazole

**Acute Toxicity – Inhalation**        LC<sub>50</sub> (rat) (4hr) >5400 mg/m<sup>3</sup>

**Eye Irritation**                              Irritant (rabbit)

**Skin Irritation**                             Irritant (rabbit)

**Sensitization**                              Not a sensitizer (guinea pigs)

**Chronic Effects**                          Difenoconazole technical has been extensively tested on laboratory mammals and in test-tube systems. Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

## SECTION 12 – ECOLOGICAL INFORMATION

### **Acute Toxicity – Fish**

LC<sub>50</sub> (96 hr) for trout is 8 mg/l.

LC<sub>50</sub> (96 hr) for bluegill sunfish is 1.2 mg/l.

**Acute Toxicity – Birds**

LC<sub>50</sub> (9-11 days) for mallard duck is >2150 mg/kg  
LC<sub>50</sub> (9-11 days) for bobwhite quail is >4760 mg/kg

**Acute Toxicity – algae**

EbC<sub>50</sub> (72 hr) for Scenedesmus subspicatus = 1.2mg/l

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Disposal:** Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

**SECTION 14 – TRANSPORT INFORMATION**

**UN Number (Land Transport):** 3082

**Sea IMDG-Code:** None allocated

**Proper Shipping:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Difenoconazole), Class 9, Packing Group III.

**SECTION 15 – REGULATORY INFORMATION**

**HSNO Approval Number:** HSR1001138

**HSNO Controls (inc. Tracking and Record Keeping):** See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions

**ACVM Registration:** P9344

**ACVM Controls:** See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

**SECTION 16 – OTHER INFORMATION**

This SDS contains only safety-related information. For other data see product literature.

**CONTACT POINT:**

Police Ambulance and Fire Service:	Dial	111
National Poisons Information Centre: Hazardous Substances	Dial	0800 POISON (0800 764 766)
Emergency Telephone Number:	Dial	0800 CHEMCALL (0800 243 622)