

## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>Kenso Agcare Pavo 250 EC Fungicide</b>
<b>Product Type:</b>	Group 11 Fungicide
<b>Company Name:</b>	Kenso Corporation (M) Sdn Bhd
<b>Address:</b>	Level 1, 98 Commercial Road, Teneriffe QLD 4005
<b>Telephone Number:</b>	(07) 3216 1188
<b>Facsimile Number:</b>	(07) 3216 0388
<b>Emergency Telephone Number:</b>	000 (Police or Fire Brigade) <b>13 11 26 (Poisons Information Centre)</b>
<b>Use:</b>	For the control of leaf speckle and leaf spot in bananas and downy and powdery mildew in grapevines, husk spot in macadamia and rust in almond as specified in the Directions for Use Table.

### SECTION 2 – HAZARDS IDENTIFICATION

<b>Hazard Classification:</b>	Classified as hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG Code.
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<b>GHS Signal Word:</b>	<b>DANGER</b>
<b>Hazard statements:</b>	<p>H227: Combustible liquid.</p> <p>H302: Harmful if swallowed.</p> <p>H304: May be fatal if swallowed and enters airways.</p> <p>H315: Causes skin irritation.</p> <p>H319: Causes serious eye irritation.</p> <p>H332: Harmful if inhaled.</p> <p>H335: May cause respiratory irritation.</p> <p>H400: Very toxic to aquatic life.</p> <p>H410: Very toxic to aquatic life with long lasting effects.</p>
<b>Prevention:</b>	<p>P210: Keep away from flames and hot surfaces. – No smoking.</p> <p>P261: Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264: Wash contacted areas thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves, protective clothing and eye or face protection.</p>
<b>Response:</b>	P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: Specific treatment (see FIRST AID on this label).

P330: Rinse mouth.

P331: Do NOT induce vomiting.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P370 + 378: In case of fire: Use water fog, foam, dry agent (carbon dioxide, dry chemical powder) for extinction.

P391: Collect spillage.

**Storage:**

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

**Disposal:**

P501: Dispose of contents and containers as specified on the registered label.

**SUSMP Classification:**

S5

**ADG Classification:**

N/A

**UN Number:**

N/A

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**Emergency Overview**

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**Physical Description & colour:** Yellow liquid.

**Odour:** Aromatic hydrocarbon.

**Major Health Hazards:** Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin.

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS number	Proportion
Pyraclostrobin	175013-18-0	23.6 %
Liquid hydrocarbons	64742-94-5	66.5 %
Inert ingredients	secret	To 100 %

**SECTION 4 – FIRST AID MEASURES**

**General Information:**

If poisoning occurs, contact a doctor or Poisons Information Centre, Phone Australia 131 126.

<b>Inhalation:</b>	Remove to fresh air until recovered. If symptoms persist, seek medical advice.
<b>Skin contact:</b>	Remove contaminated clothing and laundry before use. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
<b>Eye contact:</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical attention.
<b>Ingestion:</b>	If product is swallowed or gets in mouth, do NOT induce vomiting due to aspiration hazard; wash mouth with water. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

**Advice to Doctor:**

Treat symptomatically.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Specific Hazard**

Product is a combustible liquid, C1.

**Fire/Explosion Hazard**

**Thermal decomposition**

Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, sulfur oxides, organochloric compounds. The substances/groups of substances mentioned can be release in case of fire.

**Extinguishing Media**

Extinguish fire with foam, dry powder or water spray/fog.

**Fire Fighting**

If a significant quantity of this product is involved in a fire, call the fire brigade. Isolate the fire area and evacuate all personnel downwind of the fire. Fire-fighter should wear appropriate protective equipment with self-contained breathing apparatus.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Spills and Disposal**

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Do not allow to enter drains, sewers and watercourses. Triple rinse containers, add rinsings to spray tanks and send containers for recycling or if not recycling, break, crush or puncture and bury empty containers in a local authority landfill or in accordance with local, state or federal regulation. Do not dispose of undiluted chemicals on site.

**Personal Protection**

For appropriate personal protective equipment (PPE), refer Section 8.

## SECTION 7 – HANDLING AND STORAGE

### Handling

When handling this product, do not eat, drink or smoke.

When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist [or equivalent clothing], a washable hat, elbow-length PVC gloves and face shield or goggles. When using the prepared spray by ground application wear cotton overalls buttoned to the neck and wrist [or equivalent clothing], a washable hat and elbow-length PVC gloves. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each days use, wash gloves, face shield or goggles and contaminated clothing.

### Storage

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### National Exposure Standards:

No exposure standards have been set for this product. ADI for Pyraclostrobin is set at 0.03 mg/kg/day with corresponding NOEL is set at 3 mg/kg/day.

*\*ADI= Acceptable Daily Intake; NOEL: No Observable Effect Level. Data adopted from Australia ADI List, March 2016.*

### Engineering Controls

Handle in well ventilated areas, if natural ventilation is inadequate, use of a fan is recommended. Keep containers closed when not in use.

### Personal Protective Equipment

When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist [or equivalent clothing], a washable hat, elbow-length PVC gloves and face shield or goggles.

### Eye Protection

Eye protection is essential. Wear a face shield or goggles.

### Hygiene Measures

Wash hands after use. After each days use, wash gloves, face shield or goggles and contaminated clothing.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Yellow
Odour:	Aromatic hydrocarbon
pH:	5 - 7
Boiling point (°C):	Not available
Vapour Pressure:	$2.6 \times 10^{-5}$ mPa for technical @ 20°C
Flashpoint:	88°C
Specific Gravity:	$1.06 \pm 0.01$
Solubility:	Emulsify in water

## SECTION 10 – STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions. It is unlikely to react or decompose under normal storage conditions.

### Conditions to Avoid

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

### Incompatibilities

Strong acids, strong bases and strong oxidizing agents.

### Fire Decomposition

Refer Section 5. No hazardous decomposition products if stored and handled as prescribed/indicated.

### Polymerisation

This product will not undergo polymerisation reactions.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Toxicity data (of technical)

#### Acute Toxicity – Oral

LD<sub>50</sub> (rat): >5000 mg/kg.

#### Acute Toxicity - Dermal

LD<sub>50</sub> (rat): >2000 mg/kg.

#### Acute Toxicity – Inhalation:

LC<sub>50</sub> (rats) (4hr): 0.69 mg/L.

**Skin irritation:** IRRITANT

**Eye irritation:** NON IRRITANT

**Sensitization:** NON SENSITISER

## Potential Health Effects

### Health Effects

Product is harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin.

#### Acute:

<b>Inhalation:</b>	Product is harmful if inhaled. Maybe irritating but unlikely to cause anything more than mild transient discomfort.
<b>Skin contact:</b>	Product is skin irritant. Symptoms may include stinging and reddening of contacted skin. Other symptoms may also become evident, but if treated promptly, all should disappear once exposure stopped.
<b>Eye contact:</b>	Product is eye irritant. Symptoms include stinging and reddening of eyes, watering which may become copious. Other symptoms may

become evident. If exposure is brief, symptoms should disappear once exposure stopped. Lengthy exposure or delayed treatment may cause permanent damage.

**Ingestion:**

Significant oral exposure is unlikely. Available data shown product is harmful but symptoms are not available. This product maybe irritating to mucuous membrane but unlikely to cause anything more than mild transient discomfort.

**Mutagenicity**

No data available.

**Carcinogenicity**

Not carcinogenic.

**Other Information**

The Australian Acceptable Daily Intake (ADI) for Pyraclostrobin is set at 0.03 mg/kg/day with corresponding NOEL is set at 3 mg/kg/day.

\*ADI= Acceptable Daily Intake; NOEL: No Observable Effect Level. Data adopted from Australia ADI List, March 2016.

## SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

**Ecotoxicity data (of technical)**

**Acute Toxicity – Bird**

LD<sub>50</sub> bobwhite quail : >2000mg/kg.

**Acute Toxicity – Fish**

LC<sub>50</sub> rainbow trout (96 hrs): 0.006 mg/L.

**Acute Toxicity – Crustaceans**

Daphnia LC<sub>50</sub> (48 hrs): 0.016 mg/L.

**Acute Toxicity – Other organisms**

Algae: E<sub>b</sub>C<sub>50</sub> *Pseudokirchneriella subcapitata* (72 hrs): >0.843 mg/L.

Worms: LC<sub>50</sub> : 566 mg/kg soil.

Bees: LD<sub>50</sub> (contact): >73.1 µg/bee.

**ENVIRONMENTAL FATE**

Pyraclostrobin is expected to be immobile based upon a Koc range of 6,000 to 16,000 mL/g. A biodegradation half-life of 2-36 days in soil suggests that biodegradation may be an important environmental fate process. Pyraclostrobin is stable to hydrolysis in water.

## 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

<b>Transport</b>	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
<b>UN Number (Sea Transport):</b>	3082
<b>IMO Class/Packing Group:</b>	Class 9; Packing Group III
<b>IMO Marine Pollutant:</b>	Marine Pollutant
<b>IMO Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains pyraclostrobin)

## SECTION 15 – REGULATORY INFORMATION

<b>SUSMP Classification</b>	S5
<b>Packaging &amp; Labelling</b>	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

## SECTION 16 – OTHER INFORMATION

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

**Acronyms:**

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Number</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons
<b>UN Number</b>	United Nations Number
<b>GHS</b>	Globally Harmonised System

**CONTACT POINT:**

Police and Fire Brigade:	Dial	000
<b>National Poisons Information Centre:</b>	<b>Dial</b>	<b>13 11 26 (from anywhere in Australia)</b>
For 24 hour emergency response:	Dial	0439 933 556
	Ask for Murray Goodlich	