

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Propi 250 Fungicide
Product Type: Group C Fungicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Unit 3C, 59, Oxford Street, Bulimba Queensland 4171
Telephone Number: (07) 3217 9788
Facsimile Number: (07) 3217 9733
Emergency Telephone Number: 000 (Police or Fire Brigade)
13 11 26 (Poisons Information Centre)
Use: For control of certain fungal diseases of Bananas, Peanuts, Perennial Ryegrass, Pineapples, Stone Fruit, Sugar Cane, Wheat and other crops in certain states as specified in the Direction for Use.

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Propiconazole	60207-90-1	25 % w/v
Liquid hydrocarbon	64742-94-5	63% w/v
Inert ingredient	secret	To 100 % w/v

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Classification: Not classified as hazardous according to criteria of ASCC Australia.
Risk Phrase(s): Not Hazardous – No criteria found.
Safety Phrase(s): Not Hazardous – No criteria found.
SUSDP Classification: S6
ADG Classification: None allocated. Not a dangerous good.
UN Number: None allocated.

Emergency Overview

Physical Description & colour: Clear amber liquid.
Odour: Solvent odour.
Major Health Hazards: No major health hazards are known.

Potential Health Effects

Health Effects

Acute:

Swallowed: Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.

Eye: The concentrate may cause irritation of the eyes.

Skin: Prolonged contact with the concentrate may cause irritation.

Inhaled: The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. However, care should be taken

to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur. Breathing vapour can result in headaches, dizziness and possible nausea.

Carcinogen Status:

ASCC: No significant ingredient is classified as carcinogenic by ASCC

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

SECTION 4 – FIRST AID MEASURES

Swallowed:	If swallowed, do not induce vomiting. Give a glass of water. Do not give anything by mouth to a semi-conscious or unconscious person. Obtain medical advice.
Skin:	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Eyes:	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
Inhaled:	Remove affected person to fresh air until recovered. Obtain medical assistance.

Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazards

This product is classified as a C1 combustible product. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media

Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash Points:

>64° C

Upper Flammability Limit:	No data
Lower Flammability Limit:	No data
Autoignition temperature:	No data
Flammability class:	C1

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

In the event of a major spill, prevent spillage from entering drains or water courses. Immediately call the Fire Brigade. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. After spill, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full

details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

SECTION 7 – HANDLING AND STORAGE

Handling

For personal protective equipment (PPE) and hygiene advice, refer Section 8.

Storage

Store in the closed, original container in a dry, well ventilated area, as cool as possible. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

No exposure standards have been set for this product or the active ingredients.

Engineering Control

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Measures

When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and goggles.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear amber liquid
Odour:	Solvent odour
Boiling point (°C):	Not available
Melting point (°C):	Not available
Vapour Pressure:	27 microPascals @ 20°C for Propiconazole
Specific Density:	0.995 ± 0.01
Flashpoint:	>63 °C
Flammability Limits:	Non flammable
Solubility in Water:	Form emulsion

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferable below 30 °C. Keep away from sources of sparks or ignition.

Incompatibilities: Strong acids, strong bases, strong oxidizing agents.

Fire Decomposition: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly, symptoms and death can both occur quickly.

Polymerisation: This product is unlikely to undergo polymerization processes.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity Data:

Propiconazole technical
Acute oral LD₅₀ for rats: 1517 mg/kg
Acute oral LD₅₀ for mice: 1419 mg/kg
Acute dermal LD₅₀ for rats: > 4000 mg/kg
Acute dermal LD₅₀ for rabbits: >6000 mg/kg
Acute inhalation LC₅₀ (4hr) for rats: >5800 mg/L

SECTION 12 – ECOLOGICAL INFORMATION

Acute Toxicity – Birds

LD₅₀ for (mallard duck) is >2510 mg/kg
LD₅₀ for Japanese quail is 2223 mg/kg
LD₅₀ for Bobwhite quail is 2825 mg/kg

Acute Toxicity - Fish

LC₅₀ for Carp is 6.8 mg/L
LC₅₀ for rainbow trout is 5.3 mg/L
LC₅₀ for golden orfe is 5.1 mg/L

Acute Toxicity – Other Organisms

EC₅₀ for algae is 0.02-13.6 mg/L
Not toxic to bees.
EC₅₀ for daphnia 4.8 mg/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. Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

SECTION 14 – TRANSPORT INFORMATION

UN Number:	None Allocated
Proper Shipping Name:	None Allocated
ADG Class:	None Allocated
Hazchem Code:	None Allocated
Packing Group:	None Allocated

SECTION 15 – REGULATORY INFORMATION

Poison schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
AICS (Australia)	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

SECTION 16 – OTHER INFORMATION

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

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health and Safety Commission
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

CONTACT POINT:

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